



INPATIENT MEDICATIONS NURSE'S USER MANUAL

Version 5.0
December 1997

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Department of Veterans Affairs
Enterprise Program Management Office

(This page included for two-sided copying.)

Revision History

| Date | Revised Pages | Patch Number | Description |
|---------|--|--------------|---|
| 07/2021 | 41-44 72-78 79 | PSJ*5*364 | Updated 4.5.2 New Order Entry example with hazardous medication warning message. Updated 4.6.2 Edit example with hazardous medication warning message Updated 4.6.3 Verify example with hazardous medication warning message. Updated footer |
| 09/2020 | 5 , 10 , 15 , 21 – 23 , 55 – 62 , 64 – 66 , 72 , 81 , 89 , 99 , 102 , 107 , 110 , 113 , 119 , 124 33 61 127 195 | PSJ*5*319 | Added CM to all applicable screen captures. Added a description for Entering a new CM Clinic Medication order , revised the menu items, and put them into traditional VistA format. Removed the duplicate CM New Clinic Medication Entry from the Example: Profile View . Clinic Orders : Removed the statement about backdoor inpatient medications, added a description of PSJ_5_319 and updated the example of a CM New Clinic Medication Entry. Added CM New Clinic Medication Entry to Glossary/Patient Order Action Prompts. Global: removed all instances of “New clinic orders cannot be created.” Updated title page and footers for month and year. REDACTED |
| 8/2020 | 40 , 51 Global | PSJ*5*388 | Updated Stop Date/Time text and added a reference to the Technical Manual for more detail of the rules for Stop Date/Time calculation. Revised dates on Title page and in footers REDACTED |
| 07/2019 | v_xi 30 208 | PSJ*5*327 | Updated Revision History and Table of Contents Deleted note on special order checks for clozapine. Updated Index. |

| Date | Revised Pages | Patch Number | Description |
|---------|---|--------------|---|
| | | | REDACTED |
| 12/2018 | 33 , 40 , 47 | PSJ*5*366 | Updated Medication Route default prompt to check defined routes for Orderable Items. Added new checks for Providers when writing medications. REDACTED |
| 10/2018 | Title, 5, 13, 20-21, 26-27,40-42,52-69,75-84, 87-91, 96, 99, 103-113, 122-125 | PSJ*5*353 | Updated Inpatient Order Displays REDACTED |
| 09/2018 | Title Page, i, vii 18, 20, 27, 37, 46-48, 52, 53, 55-60, 62, 63, 68-70, 72, 75, 76, 79, 80, 82, 84, 90, 93-100, 111, 113, 124-126, 135, 164, 169 and 170 34, 43 35, 43 18, 20, 53, 76, 90, and 135 20, 47, 52, 53, 57, 59, 76, 84, 90, 95, 97, 100, 111, 125, 135, 157, 167, and 169 70 and 131 | PSJ*5*373 | Updated Title Page, Revision History, and Table of Contents Corrected date so year is displayed with four digits in the following options: PSJI ORDER - Order Entry (IV) PSJI PROFILE REPORT - Patient Profile Report (IV) PSJ OE - Inpatient Order Entry PSJU NE - Order Entry PSJU PR - Patient Profile (Unit Dose) PSJ EXTP - Patient Profile (Extended) PSJ PR - Inpatient Profile Added warning when entered Start Date/Time exceeds 7 days from the order's Login Date. Added warning that an entry of a stop date greater than 367 days from the start of the date of the order is not allowed. Corrected alignment so Give info and Renewed info are on the same line. Corrected Out-of-Aligned items in Active, Non-Active, Pending, and Renewed columns so they line up with Start/Stop status column. Made formatting change (Orphan paragraph title and missing bullet). |
| 02/2018 | Title | PSJ*5*256 | Updated month/year of revision |

| Date | Revised Pages | Patch Number | Description |
|---------|---|--------------|---|
| | 5 6 14, 19-20, 22, 26-27, 40, 52, 54-59, 63, 69, 84, 96, 99, 138, 148, 170, 172, 174, 176, 180, 183 75-76 80 87-89 132 191 | | Updated Inpatient List Manager Diagram Updated Hidden Area information Updated Patient Information Screen Displays Updated Verification Action for Old Schedule Name Updated Renew Action for Old Schedule Name Updated Finish Action for Old Schedule Name Updated Dosing Order Check section 4.10.4 Updated Error Message Table – added System Level Error |
| 02/2017 | i-x, 23-24 | PSJ*5*325 | Updated Revision History and Table of Contents. Added Section 4.2.1. Display of Discontinued or Edited IV Orders. REDACTED |
| 10/2016 | 9 10 25 51 61 | PSJ*5*317 | Updated Revision History and Table of Contents Added Hidden action - 'PD' action. Added Drug IEN and PADE Stock Item Indicator Added section 4.1.9 PADE Main Menu Option. Added PADE Stock and Ward Stock Items Added Inpatient Order Entry profile -'PD' flag. REDACTED |
| 08/2016 | i-v 24 128 | PSJ*5*315 | Updated Revision History and Table of Contents Added text for new Duration of Administration prompt to <i>Inpatient Order Entry</i> option Added text for requesting additional user activity for entering specific information in the new Duration of Administration prompt REDACTED |
| 06/2016 | i. 88-89 | PSJ*5*313 | Update Revision History and Table of Contents Added language to Section 4.5.7 re changes to IV Additive and Orderable Item. Added example: Multiple items for an Orderable Item. Added Example: Multiple IV Additives for same order with multiple items attached to the Orderable Item. Updated Revision History and TOC REDACTED |
| 04/2016 | i,v-vi 19, 20, 28, 47, | PSJ*5*281 | Update Revision History Update Table of Contents Update screen captures |

| Date | Revised Pages | Patch Number | Description |
|---------|--|---|---|
| | 56, 65, 66, 67 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123 185,186 188, 195, 197 | | Add OI & DD Enh Order Check Moved content from sections 4.10.1 - 4.10.4 to section 4.9 Add Allergy Order Check Add Clinical Reminders Update Glossary Update Index REDACTED |
| 05/2015 | 69 | PSJ*5*259 | Added verbiage to section 4.5.3 Verify REDACTED |
| 03/2014 | All i-iv, v-vi 1 40-41 47 50, 80 107 98, 102, 163-164 173, 174 179-181 100 85-86 | PSJ*5*252 PSJ*5*297 Remedy Ticket #844215 | Renumbered all pages & format heading alignment Update Revision History and Table of Contents Added to the Related Manuals Added Bottle Update screen Added reference to Order Checks Added 4.10.4. Dosing Order Checks Update or delete content Update Glossary Update Index Updated the last paragraph Added text for placing orders for CPRS Inpatient Medications REDACTED |
| 12/2013 | i-iv, 29, 29a-29b, 48, 48a-48d, 74m, 74x, 127, 127a-127b, 139-142 | PSJ*5*279 | Added IV Bag Logic, Infusion Rate T@0, Pre-Exchange Report, and Missing Dose Request Printer functionalities. Updated Glossary and Index. REDACTED |

| Date | Revised Pages | Patch Number | Description |
|---------|---|-------------------------|--|
| 04/2013 | i-x, 11, 12, 13-14, 14a, 16d-16f, 74m-74x, 77, 98, 100-101, 140-141 | PSJ*5*275 | Added Clinic Orders functionality REDACTED |
| 01/2013 | i v 5 vii, 9, 11 10, 20, 140 16, 16a, 16c, 26, 40, 40a, 40c, 41-42, 52, 57, 67, 71, 74a, 74c, 74d, 77, 99, 104, 106, 107, 111, 114 73a-73d 74f-74f1 74f2 124 125-138 139-142 | PSJ*5*260, PSJ*5*268 | Updated Revision History Updated Table of Contents Fix text wrapping (Page 1 of 1) in screen Added new option Check Drug Interaction & Display Drug Allergies Change label for OCI Added Creatinine Clearance (CrCl) and Body Surface Area (BSA) Added new section for Check Drug Interactions function Added Clinic Orders information Drug allergy update Added Hidden Action Check Interactions & Display Drug Allergies, and update OCI Updated Glossary Updated Index REDACTED |
| 09/2012 | i-iii, 12, 12a-12b, 14, 14a-14b, 16d-16f, 24b-24d, 26-27, 27a-27b, 30, 30a-30b, 59, 59a-59b 131 | PSJ*5*267 | Added No Allergy Assessment logic Updated Special Instructions/Other Print Info REDACTED |
| 01/2012 | i-iv v-vi 10 20 23 35 47, 53, 60 74d | PSJ*5*254 | Updated Table of Contents Added Order Checks/Interventions (OCI) to “Hidden Actions” section Defined OCI Indicator Updated Schedule Type text Updated text under Interventions Menu Updated Pharmacy Interventions for Edit, Renew, and Finish orders Added note to Drug-Drug Interactions |

| Date | Revised Pages | Patch Number | Description |
|---------|--|--------------|--|
| | 74f-74g 74k 74l 124, 127, 131, 133, 134 137-140 | | Added note to Drug-Allergy Interactions Added “Display Pharmacist Intervention” section Defined Historical Overrides/Interventions Updated Glossary Updated Index REDACTED |
| 09/2011 | 65 | PSJ*5*235 | Updated ‘Note’ section regarding Expected First Dose REDACTED |
| 07/2011 | Cover Page i, 16 140 | PSJ*5*243 | Removed the acronym PD on Cover page Update Revision History Update Index Revised the existing display in the <i>Non-Verified/Pending Orders</i> [PSJU VBW] option from a pure alphabetic listing of patient names, to a categorized listing by priority. Added “priority” to Index. REDACTED |
| 04/2011 | i v-vi 12 13 15-16d 18 20 26-27 33-34b 35-39 40-40d 46 67 71 72-73 74 74a-74c 74d-74f 74f-74g 105 119-120 121-122 123-136 137-140 | PSJ*5*181 | Updated Revision History Updated Table of Contents New Example: Patient Information Screen New Example: Non-Verified/Pending Orders Updated: Example: Short Profile, HOURS OF RECENTLY DC/EXPIRED field (#7) and INPATIENT WARD PARAMETERS file (#59.6) information, and Example: Profile. Updated “Select DRUG:” New Example: Dispense Drug with Possible Dosages and New Example: Dispense Drug with Local Possible Dosages New Example: New Order Entry New Example: New Order Entry (Clinic Location) New Examples of all the New Interventions Updated the View Profile and New Example: Profile View New Medication Profile Discontinue Type Codes New Example: Flagged Order New Example: Inpatient Profile Updated Order Checks New Example: Local Outpatient Order Display and New Example: Remote Outpatient Order Display Duplicate Therapy Drug-Drug Interaction CPRS Order Checks Updated Example: Authorized Absence/Discharge Summary (continued) CPRS Order checks: How they work Error Messages Glossary - fix page numbering Index - new entries and fix page numbering REDACTED |

| Date | Revised Pages | Patch Number | Description |
|---------|--|----------------------------|--|
| 06/2010 | i-vi, 22-23, 23a-23b, 24, 24a-24b, 74a-74b, 74e-74f, 133, 136-137 77, 100, 103, 108-110, 112, 114 | PSJ*5*113 | Added new Order Validation Requirements. Removed Duplicate Order Check Enhancement functionality, PSJ*5*175 (removed in a prior patch). Miscellaneous corrections. REDACTED |
| 12/2009 | 60a, 60b vi | PSJ*5*222 | Added description of warning displayed when finishing a Complex Unit Dose Order with overlapping admin times. Corrected page numbers in Table of Contents. REDACTED |
| 07/2009 | 48 | PSJ*5*215 | When Dispense Drug is edited for an active Unit Dose, an entry is added to the activity log. REDACTED |
| 02/2009 | 125 | PSJ*5*196 | Update to IV Duration REDACTED |
| 08/2008 | 19-37, 58-59, 65, 134 | PSJ*5*134 | Inpatient Medication Route changes added, plus details on IV type changes for infusion orders from CPRS, pending renewal functions, and expected first dose changes. REDACTED |
| 10/2007 | iv, 74a-74d 5, 12, 16-17, 26, 34-38, 41-42, 72-73 | PSJ*5*175 PSJ*5*160 | Modified outpatient header text for display of duplicate orders. Added new functionality to Duplicate Drug and Duplicate Class definitions. Modifications for remote allergies, to ensure all allergies are included when doing order checks using VA Drug Class; Analgesic order checks match against specific class only; check for remote data interoperability performed when entering patient's chart; and list of remote allergies added to Patient Information screen. REDACTED |
| 07/2007 | 79a-79b, 86a-86b, 92a-92b | PSJ*5*145 | On 24-Hour, 7-Day, and 14-Day MAR Reports, added prompt to include Clinic Orders when printing by Ward or Ward Group. Also added prompt to include Ward Orders when printing by Clinic or Clinic Group. REDACTED |
| 05/2007 | 24 | PSJ*5*120 | Modified Inpatient Medications V. 5.0 to consider the duration the same way as all other stop date parameters, rather than as an override. REDACTED |
| 12/2005 | 1, 73-74b | PSJ*5*146 | Remote Data Interoperability (RDI) Project: Removed document revision dates in Section 1. Introduction. Updated Section 4.9. Order Checks, to include new functionality for remote order checking. REDACTED |

| Date | Revised Pages | Patch Number | Description |
|---------|---------------|--------------|---|
| 01/2005 | All | PSJ*5*111 | Reissued entire document to include updates for Inpatient Medications Orders for Outpatients and Non-Standard Schedules. REDACTED |

Table of Contents

| | | |
|----------|--|-----------|
| 1 | Introduction..... | 1 |
| 2 | Orientation | 3 |
| 3 | List Manager | 5 |
| 3.1 | Using List Manager..... | 6 |
| 3.2 | Hidden Actions | 7 |
| 4 | Order Options | 13 |
| 4.1 | Order Entry | 14 |
| 4.2 | Non-Verified/Pending Orders | 15 |
| 4.2.1 | Display of Discontinued or Edited IV Orders | 24 |
| 4.3 | Inpatient Order Entry | 25 |
| 4.4 | PADE Main Menu Option | 27 |
| 4.5 | Patient Actions | 28 |
| 4.5.1 | Patient Record Update..... | 28 |
| 4.5.2 | New Order Entry | 29 |
| 4.5.3 | Detailed Allergy/ADR List | 55 |
| 4.5.4 | View Profile | 60 |
| 4.5.5 | Patient Information..... | 65 |
| 4.5.6 | Select Order..... | 66 |
| 4.6 | Order Actions..... | 68 |
| 4.6.1 | Discontinue..... | 68 |
| 4.6.2 | Edit | 69 |
| 4.6.3 | Verify..... | 77 |
| 4.6.4 | Hold..... | 80 |
| 4.6.5 | Renew | 82 |
| 4.6.6 | Activity Log | 88 |
| 4.6.7 | Finish..... | 89 |
| 4.6.8 | Flag..... | 99 |
| 4.6.9 | Speed Actions..... | 100 |
| 4.7 | Discontinue All of a Patient’s Orders[PSJU CA] | 100 |
| 4.8 | Hold All of a Patient’s Orders..... | 100 |
| 4.9 | Inpatient Profile..... | 101 |
| 4.10 | Order Checks..... | 103 |
| 4.10.1 | Clinic Orders | 128 |
| 4.10.2 | Order Validation Checks | 131 |
| 4.10.3 | Display of Provider Overrides and Pharmacist Interventions | 133 |
| 4.10.4 | Dosing Order Checks | 135 |
| 4.11 | Check Drug Interactions | 135 |
| 4.12 | Pharmacy - Edit Clinic Med Orders Start Date/Time | 137 |

| | | |
|-----------|--|------------|
| 4.12.1 | Search Med Orders Date Entry | 138 |
| 4.12.2 | Search by Clinic, Clinic Group or Patient..... | 139 |
| 4.12.3 | Select Patient from Clinic..... | 139 |
| 4.12.4 | View Patient Clinic Order Entry Profile | 140 |
| 4.12.5 | Entering a New Start Date/Time | 143 |
| 4.12.6 | Order Entry View with New Start Date | 144 |
| 4.12.7 | New Start Date Update Confirmation | 144 |
| 4.12.8 | Conditional Messages Displaying after New Start Date | 145 |
| 4.12.9 | Conditional Messages Displaying after Selection of Orders..... | 147 |
| 5 | Maintenance Options..... | 150 |
| 5.1 | Edit Inpatient User Parameters[PSJ UEUP] | 150 |
| 5.2 | Edit Patient's Default Stop Date | 150 |
| 6 | Output Options | 152 |
| 6.1 | PATient Profile (Unit Dose)..... | 152 |
| 6.2 | Reports Menu..... | 153 |
| 6.2.1 | 24 Hour MAR..... | 153 |
| 6.2.2 | 7 Day MAR | 161 |
| 6.2.3 | 14 Day MAR | 167 |
| 6.2.4 | Action Profile #1 | 173 |
| 6.2.5 | Action Profile #2 | 175 |
| 6.2.6 | AUthorized Absence/Discharge Summary | 177 |
| 6.2.7 | Extra Units Dispensed Report | 181 |
| 6.2.8 | Free Text Dosage Report..... | 182 |
| 6.2.9 | INpatient Stop Order Notices | 183 |
| 6.2.10 | Medications Due Worksheet | 184 |
| 6.2.11 | Patient Profile (Extended) | 186 |
| 6.3 | Align Labels (Unit Dose)..... | 188 |
| 6.4 | Label Print/Reprint..... | 189 |
| 7 | Inquiries Options | 190 |
| 7.1 | Dispense Drug Look-Up | 190 |
| 7.2 | Standard Schedules | 191 |
| 8 | CPRS Order Checks: How They Work..... | 192 |
| 8.1 | CPRS Order Checks Introduction | 192 |
| 8.2 | Order Check Data Caching | 192 |
| 9 | Error Messages | 194 |
| 9.1 | Error Information | 194 |
| 10 | Glossary | 196 |
| 11 | Index..... | 209 |

Since the documentation is arranged in a topic oriented format and the screen options are not, a menu tree is provided below for the newer users who may need help finding the explanations to the options.

Menu Tree

Topic-Oriented Section

| | | |
|-----|---------------------------------------|---------------------|
| | Align Labels (Unit Dose) | Output Options |
| | Discontinue All of a Patient's Orders | Order Options |
| EUP | Edit Inpatient User Parameters | Maintenance Options |
| | Hold All of a Patient's Orders | Order Options |
| IOE | Inpatient Order Entry | Order Options |
| IPF | Inpatient Profile | Order Options |
| | Check Drug Interaction | Order Options |
| | INquiries Menu... | Inquiries Option |
| | Dispense Drug Look-Up | Inquiries Option |
| | Standard Schedules | Inquiries Option |
| | Label Print/Reprint | Output Options |
| | Non-Verified/Pending Orders | Order Options |
| | Order Entry | Order Options |
| | PAtient Profile (Unit Dose) | Output Options |
| | Reports Menu... | Output Options |
| | 24 Hour MAR | Output Options |
| | 7 Day MAR | Output Options |
| | 14 Day MAR | Output Options |
| | Action Profile #1 | Output Options |
| | Action Profile #2 | Output Options |
| | AUthorized Absence/Discharge Summary | Output Options |
| | Extra Units Dispensed Report | Output Options |
| | Free Text Dosage Report | Output Options |
| | INpatient Stop Order Notices | Output Options |
| | Medications Due Worksheet | Output Options |
| | Patient Profile (Extended) | Output Options |

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1 Introduction

The Inpatient Medications package provides a method of management, dispensing, and administration of inpatient drugs within the hospital. Inpatient Medications combines clinical and patient information that allows each medical center to enter orders for patients, dispense medications by means of Pick Lists/print labels, create Medication Administration Records (MARs), and create Management Reports. Inpatient Medications also interacts with the Computerized Patient Record System (CPRS) and the Bar Code Medication Administration (BCMA) packages to provide more comprehensive patient care.

This user manual is written for the Nursing Staff, the Automated Data Processing Application Coordinator (ADPAC), and other healthcare staff for managing, dispensing, and administering medications to the patients within the hospital. The main text of the manual outlines patients' ordering options for new and existing orders, editing options, output options, and inquiry options.

The Inpatient Medications documentation is comprised of several manuals. These manuals are written as modular components and can be distributed independently and are listed below.

- Nurse's User Manual V. 5.0
- Pharmacist's User Manual V. 5.0
- Supervisor's User Manual V. 5.0
- Technical Manual/Security Guide V. 5.0
- Pharmacy Ordering Enhancements (POE) Phase 2 Release Notes V. 1.0
- Pharmacy Ordering Enhancements (POE) Phase 2 Installation Guide V. 1.0
- Dosing Order Check User Manual
- VistA to MOCHA Interface Document

(This page included for two-sided copying.)

2 Orientation

Within this documentation, several notations need to be outlined.

- Menu options will be italicized.
Example: *Inpatient Order Entry* indicates a menu option
- Screen prompts will be denoted with quotation marks around them.
Example: “Select DRUG:” indicates a screen prompt.
- Responses in bold face indicate what the user is to type in.
Example: Printing a MAR report by group (**G**), by ward (**W**), clinic (**C**), or patient (**P**).
- Text centered between arrows represents a keyboard key that needs to be pressed in order for the system to capture a user response or move the cursor to another field. **<Enter>** indicates that the Enter key (or Return key on some keyboards) must be pressed. **<Tab>** indicates that the Tab key must be pressed.
Example: Press **<Tab>** to move the cursor to the next field.
Press **<Enter>** to select the default.

- Text depicted with a black background, displayed in a screen capture, designates reverse video or blinking text on the screen.
Example:

```
(9) Admin Times: 01-09-15-20
*(10) Provider: PSJPHARMACIST, ONE
```



- Some of the menu options have several letters that are capitalized. By entering in the letters and pressing **<Enter>**, the user can go directly to that menu option (the letters do not have to be entered as capital letters).
Example: From the *Unit Dose Medications* option: the user can enter **INQ** and proceed directly into the *INquiries Menu* option.

- **?, ??, ???** One, two, or three question marks can be entered at any of the prompts for on-line help. One question mark elicits a brief statement of what information is appropriate for the prompt. Two question marks provide more help, plus the hidden actions and three question marks will provide more detailed help, including a list of possible answers, if appropriate.
- **^** Caret (up arrow or a circumflex) and pressing **<Enter>** can be used to exit the current option.

3 List Manager

The new screen, which was designed using List Manager has dramatically changed from the previous version.

This new screen will give the user:

- More pertinent information
- Easier accessibility to vital reports and areas of a patient’s chart the user may wish to see.

Please take the time to read over the explanation of the screen and the actions that can now be executed at the touch of a button. This type of preparation before using List Manager is effective in saving time and effort.

Inpatient List Manager

The screenshot shows a patient information screen with several sections:

- Header Area:** Contains patient information such as 'Patient Information', 'Sep 15, 2000 11:32:08', 'Page: 1 of 1', and 'CWAD* Indicator'. It also lists details like 'PSJPATIENT2,TWO', 'Ward: 1 West', 'Room-Bed: A-6', 'Ht (cm): 167.64 (04/21/99)', 'DOB: 02/22/42 (58)', 'Att: PSJTEST,PSJ', 'Wt (kg): 85.00 (04/21/99)', 'Sex: MALE', 'TrSp:Medical Observat', 'Admitted: 09/16/99', 'Dx: TEST PATIENT', 'Last transferred: *****', and 'CrCL: 0.8(est.) (CREAT: 122mg/dL 8/26/96) BSA (m2): 1.95'.
- List Area (scrolling region):** Contains 'Allergies - Verified: CARAMEL, CN900, LOMEFLOXACIN, PENTAMIDINE, PENTAZOCINE, CHOCOLATE, NUTS, STRAWBERRIES, DUST' and 'Non-Verified: AMOXICILLIN, AMPICILLIN, TAPE, FISH, FLUPHENAZINE DECANOATE'. It also lists 'Adverse Reactions: Remote:' and 'Inpatient Narrative: Inpatient narrative for PSJPATIENT2'.
- Message Window:** Contains the text 'Outpatient Narrative: This patient doesn't like waiting at the pickup window.' and 'He gets very angry.'
- Action Area:** Contains a list of actions: 'FU Patient Record Update', 'DA Detailed Allergy/ADR List', 'VP View Profile', 'NO New Order Entry', 'IN Intervention Menu', and 'CM New Clinic Medication Entry'. A 'Select Action: View Profile//' prompt is also visible.

* Crises, Warnings, Allergies, and Directives (CWAD)

Screen Title: The screen title changes according to what type of information List Manager is displaying (e.g., Patient Information, Non-Verified Order, Inpatient Order Entry, etc.).

CWAD Indicator: This indicator will display when the crises, warnings, allergies, and directives information has been entered for the patient. (This information is entered via the Text Integration Utilities (TIU) package.) When the patient has Allergy/Adverse Drug Reaction (ADR) data defined, an “<A>” is displayed to the right of the ward location to alert the user of the existence of this information.



Note: This data may be displayed using the Detailed Allergy/ADR List action). Crises, warnings, and directives are displayed respectively, “<C>”, “<W>”, “<D>”. This data may be displayed using the CWAD hidden action. Any combination of the four indicators can display.

Header Area: The header area is a “fixed” (non-scrollable) area that displays the patient’s demographic information. This also includes information about the patient’s current admission. The status and type of order are displayed in the top left corner of the heading, and will include the priority (if defined) for pending orders. The most recent height and weight for the patient and the date it was taken is displayed. The most recent information added is an estimated Creatinine Clearance (CrCL), the most recent serum Creatinine and date taken along with a calculated Body Surface Area (BSA) if height and weight are available.

List Area: (scrolling region): This is the section that will scroll (like the previous version) and display the information that an action can be taken on. The Allergies/Reactions line includes non-verified and verified Allergy/ADR information as defined in the Allergy package. The allergy data is sorted by type (DRUG, OTHER, FOOD). If no data is found for a category, the heading is displayed as “Allergies/Reactions: No Allergy Assessment”. The Inpatient and Outpatient Narrative lines may be used by the inpatient pharmacy staff to display information specific to the current admission for the patient.

Message Window: This section displays a plus sign (+), if the list is longer than one screen, and informational text (i.e., Enter ?? for more actions). If the plus sign is entered at the action prompt, List Manager will “jump” forward to the next screen. The plus sign is only a valid action if it is displayed in the message window.

Action Area: The list of valid actions available to the user display in this area of the screen. If a double question mark (??) is entered at the “Select Action prompt, a “hidden” list of additional actions that are available will be displayed.

3.1 Using List Manager

List Manager is a tool designed so that a list of items can be presented to the user for an action.

- For Inpatient Medications, the List Manager gives the user the following:
- Capability to browse through a list of orders.

- Capability to take action(s) against those items.
- Capability to print MARs, labels, and profiles from within the *Inpatient Order Entry* option.
- Capability to select a different option than the option being displayed.

3.2 Hidden Actions

A double question mark (??) can be entered at the “Select Action prompt for a list of all actions available. Typing the name(s) or synonym(s) at the “Select Action:” prompt enters the actions.

The following is a list of generic List Manager actions with a brief description. The synonym for each action is shown, followed by the action name and description.

| <u>Synonym</u> | <u>Action</u> | <u>Description</u> |
|----------------|-----------------------|---|
| + | Next Screen | Moves to the next screen |
| - | Previous Screen | Moves to the previous screen |
| | | |
| UP | Up a Line | Moves up one line |
| DN | Down a line | Moves down one line |
| | | |
| FS | First Screen | Moves to the first screen |
| LS | Last Screen | Moves to the last screen |
| GO | Go to Page | Moves to any selected page in the list |
| RD | Re Display Screen | Redisplays the current screen |
| PS | Print Screen | Prints the header and the portion of the list currently displayed |
| | | |
| PT | Print List | Prints the list of entries currently displayed |
| SL | Search List | Finds selected text in list of entries |
| Q | Quit | Exits the screen |
| ADPL | Auto Display (On/Off) | Toggles the menu of actions to be displayed/not displayed automatically |
| > | Shift View to Right | Shifts the view on the screen to the right |
| < | Shift View to Left | Shifts the view on the screen to the left |

The following is a list of Inpatient Medications specific hidden actions with a brief description. The synonym for each action is shown followed by the action name and description.

| <u>Synonym</u> | <u>Action</u> | <u>Description</u> |
|----------------|---------------|------------------------------|
| MAR | MAR Menu | Displays the <i>MAR Menu</i> |
| 24 | 24 Hour MAR | Shows the 24 Hour MAR |
| 7 | 7 Day MAR | Shows the 7 Day MAR |
| 14 | 14 Day MAR | Shows the 14 Day MAR |

| <u>Synonym</u> | <u>Action</u> | <u>Description</u> |
|-----------------------|-------------------------------|---|
| MD | Medications Due Worksheet | Shows the Worksheet |
| | | |
| LBL | Label Print/Reprint | Displays the <i>Label Print/Reprint Menu</i> |
| ALUD | Align Labels (Unit Dose) | Aligns the MAR label stock on a printer |
| LPUD | Label Print/Reprint | Allows print or reprint of a MAR label |
| ALIV | Align Labels (IV) | Aligns the IV bag label stock on a printer |
| ILIV | Individual Labels (IV) | Allows print or reprint of an IV bag label |
| SLIV | Scheduled Labels (IV) | Allows print of the scheduled IV bag label |
| RSIV | Reprint Scheduled Labels (IV) | Allows reprint of scheduled IV bag labels |
| | | |
| OTH | Other Pharmacy Options | Displays more pharmacy options |
| PIC | Pick List Menu | Displays the <i>Pick List Menu</i> |
| EN | Enter Units Dispensed | Allows entry of the units actually dispensed for a Unit Dose order |
| EX | Extra Units Dispensed | Allows entry of extra units dispensed for a Unit Dose order |
| PL | Pick List | Creates the Pick List report |
| RRS | Report Returns | Allows the entry of units returned for a Unit Dose order |
| | | |
| RPL | Reprint Pick List | Allows reprint of a pick list |
| SND | Send Pick list to ATC | Allows a pick list to be sent to the ATC (Automated Tablet Counter) |
| UP | Update Pick List | Allows an update to a pick list |
| | | |
| RET | Returns/Destroyed Menu | Displays the Returns/Destroyed options |
| RR | Report Returns | Allows entry of units returned for a Unit Dose order |
| RD | Returns/Destroyed Entry (IV) | Allows entry of units returned or destroyed for an order |
| | | |
| PRO | Patient Profiles | Displays the <i>Patient Profile Menu</i> |
| IP | Inpatient Medications Profile | Generates an Inpatient Profile for a patient |
| IV | IV Medications Profile | Generates an IV Profile for a patient |
| UD | Unit Dose Medications Profile | Generates a Unit Dose Profile for a patient |
| OP | Outpatient Prescriptions | Generates an Outpatient Profile for a patient |
| AP1 | Action Profile #1 | Generates an Action Profile #1 |
| AP2 | Action Profile #2 | Generates an Action Profile #2 |
| EX | Patient Profile (Extended | Generates an Extended Patient Profile |
| CWAD | CWAD Information | Displays the crises, warnings, allergies, and directives information on a patient |
| DA | Display Drug Allergies | Displays signs/symptoms of an allergy associated to a med order |

| <u>Synonym</u> | <u>Action</u> | <u>Description</u> |
|----------------|-------------------|---|
| CK | Check Interaction | Allows a user to perform order checks against the patient's active medication profile with or without a prospective drug. |

The following actions are available while in the Unit Dose Order Entry Profile

| <u>Synonym</u> | <u>Action</u> | <u>Description</u> |
|----------------|-------------------|---|
| DC | Speed Discontinue | Speed discontinue one or more orders (This is also available in the <i>Inpatient Order Entry</i> and <i>Order Entry (IV) options.</i>) |
| RN | Speed Renew | Speed renewal of one or more orders |
| SF | Speed Finish | Speed finish one or more orders |
| SV | Speed Verify | Speed verify one or more orders |

The following actions are available while viewing an order.

| <u>Synonym</u> | <u>Action</u> | <u>Description</u> |
|----------------|--|---|
| CO | Copy an order | Allows the user to copy an active, discontinued, or expired Unit Dose order |
| DIN | Drug Restriction/Guideline Information | Displays the Drug Restriction/Guideline Information for both the Orderable Item and Dispense Drug |
| I | Mark Incomplete | Allows the user to mark a Non-Verified Pending order incomplete |
| JP | Jump to a Patient | Allows the user to begin processing another patient |
| N | Mark Not to be Given | Allows the user to mark a discontinued or expired order as not to be given |
| OCI | Overrides/Interventions | Indicates there are associated CPRS Overrides and/or Pharmacist Interventions. When the OCI displays on the Order Detail screen, the user can type "OCI" to display associated CPRS Provider Overrides and/or Pharmacist Interventions. |

From the Inpatient Order Entry screen, the user can access PADE Activity via the PD action, which displays all of the PADE transactions.

Example: Hidden Action (PD PADE Activity) Inpatient Order Entry screen display

| | | | | | | |
|---|------------------------------------|---------------|-------|-------|---|----|
| | | P E N D I N G | | | | |
| 3 | CAPTOPRIL TAB Give: 75MG PO TID | ? | ***** | ***** | P | |
| 4 | LEVOTHYROXINE TAB | ? | ***** | ***** | P | WS |

```

Give: 0.025MG BY MOUTH *Q8H
Enter ?? for more actions
PU Patient Record Update          NO New Order Entry
                                   CM New Clinic Medication Entry
Enter RETURN to continue or '^' to exit:

The following actions are also available:
+ Next Screen          PS Print Screen          OTH Other Pharmacy Options
- Previous Screen     PT Print List            DC Speed Discontinue
UP Up a Line          SL Search List         RN Speed Renew
DN Down a Line        Q Quit                 SF Speed Finish
FS First Screen       ADPL Auto Display(On/Off) SV Speed Verify
LS Last Screen        MAR MAR Menu           CWAD CWAD Information
GO Go to Page         LBL Label Print/Reprint CK Check Interactions
RD Re Display Screen  JP Jump to a Patient   IN Intervention Menu
PD PADE Activity
Enter RETURN to continue or '^' to exit:

```

Drug IEN and PADE Stock Item Indicator

From Hidden Actions, and from the VistA Pick List, the user can view the drug name from the drug Internal Entry Number (IEN) field.

Also, if the medication listed is a PADE stock item, the word “PADE” will be added to the VistA Pick List report.

Example: Pick List with Drug IEN and PADE stock item indicator

```

(106) PICK LIST REPORT 03/18/15 11:19
WARD GROUP: BCMA PAGE: 12
FOR 03/19/15 15:01 THROUGH 03/20/15 15:00
TEAM: ** N/F **

ROOM-BED PATIENT UNITS UNITS
MEDICATION ST U/D NEEDED DISP'D
-----
===== WARD: BCMA =====
422-1 IAPATIENT,ONE (1234):
ASCORBIC ACID 250MG TAB (1353) C PADE ATC 1 1 1
GIVE: 250MG PO DAILY
10
START: 03/13/15 14:02 STOP: 04/12/15 14:00
-----
HEPARIN 5000 UNITS/ML INJ 1ML (154) C PADE ATC 1 WS ___
GIVE: 5000UNIT/1ML SC Q8H
06-14-22
START: 03/13/15 14:01 STOP: 04/12/15 14:00
LEVOTHYROXINE 0.025MG (989) C ATC 1 1 ___
GIVE: 0.025MG BY MOUTH DAILY
0900
START: 03/18/15 10:25 STOP: 06/26/15 24:00
-----
MORPHINE SULFATE 10MG SYRINGE (322) P PADE 1 2 ___
GIVE: 10MG/1ML IV BID PRN
START: 03/18/15 10:26 STOP: 06/26/15 24:00

```


(This page included for two-sided copying.)

4 Order Options

The *Unit Dose Medications* option is used to access the order entry, patient profiles, and various reports, and is the main starting point for the Unit Dose system.

Example: Unit Dose Menu

```
Select Unit Dose Medications Option: ?

    Align Labels (Unit Dose)
    Discontinue All of a Patient's Orders
ECO  Edit Clinic Med Orders Start Date/Time
EUP  Edit Inpatient User Parameters
ESD  Edit Patient's Default Stop Date
    Hold All of a Patient's Orders
IOE  Inpatient Order Entry
IPF  Inpatient Profile
RO   Act On Existing Orders
    Check Drug Interaction
    INquiries Menu ...
    Label Print/Reprint
    Non-Verified/Pending Orders
    Order Entry
    PATient Profile (Unit Dose)
    P!ck List Menu ...
    Reports Menu ...
```

Within the Inpatient Medications package there are three different paths the nurse can take to enter a new order or take action on an existing order. They are (1) *Order Entry*, (2) *Non-Verified/Pending Orders* and (3) *Inpatient Order Entry*. Each of these paths differs by the prompts that are presented. Once the nurse has reached the point of entering a new order or selecting an existing order, the process becomes the same for each path.



Note: When the selected order type (non-verified or pending) does not exist (for that patient) while the user is in the *Non-Verified/Pending Orders* option, the user cannot enter a new order or take action on an existing order for that patient.

Patient locks and order locks are incorporated within the Inpatient Medications package. When a user (User 1) selects a patient through any of the three paths, *Order Entry Non-Verified/Pending Orders* or *Inpatient Order Entry* and this patient has already been selected by another user (User 2), the user (User 1) will see a message that another user (User 2) is processing orders for this patient. This will be a lock at the patient level within the Pharmacy packages. When the other user (User 2) is entering a new order for the patient, the user (User 1) will not be able to access the patient due to a patient lock within the VistA packages. A lock at the order level is issued when an order is selected through Inpatient Medications for any action other than new order entry. Any users attempting to access this patient's order will receive a message that another user is working on this order. This order-level lock is within the VistA packages.

The three different paths for entering a new order or taking an action on an existing order are summarized in the following sections.

4.1 Order Entry [PSJU NE]

The *Order Entry* option allows the nurse to create, edit, renew, hold and discontinue Unit Dose orders while remaining in the Unit Dose Medications module. The *Order Entry* option functions almost identically to the *Inpatient Order Entry* option, but does not include IV orders on the profile and only Unit Dose orders may be entered or processed.

The *Order Entry* [PSJU NE] option also allows for processing of clinic orders. Clinic orders are displayed separately from non-clinic orders.

After selecting the *Order Entry* option from the *Unit Dose Medications* option, the nurse will be prompted to select the patient. At the “Select PATIENT:” prompt, the user can enter the patient’s name or enter the first letter of the patient’s last name and the last four digits of the patient’s social security number (e.g., P0001).

Before the Patient Information screen displays, if the patient selected has no allergy assessment on file, the following prompt displays to the pharmacist/user:

"NO ALLERGY ASSESSMENT exists for this patient! Would you like to enter one now?"

- If the pharmacist/user enters 'YES,' he/she is prompted to enter the allergy information.
- If the pharmacist/user enters 'NO,' a pharmacist intervention is created, with a type of 'NO ALLERGY ASSESSMENT.' The pharmacist/user is then prompted for Provider and Recommendation information.



Note: If the selected patient is Sensitive, Discharged, both Sensitive and Discharged, or Deceased, there are variations in the Order Entry process and in the prompts that display to the pharmacist/user.

Example: Pharmacist Answers ‘Yes’ and Enters Allergy Information

```
Select PATIENT: PSJPATIENT1, ONE

NO ALLERGY ASSESSMENT exists for this patient!

Would you like to enter one now? No// YES (Yes)
Does this patient have any known allergies or adverse reactions? : Yes
    This patient has no allergy/adverse reaction data.

Enter Causative Agent: LATEX

Checking existing PATIENT ALLERGIES (#120.8) file for matches...

Now checking GMR ALLERGIES (#120.82) file for matches...

Now checking the National Drug File - Generic Names (#50.6)

Now checking the National Drug File - Trade Names (#50.67)

Now checking the INGREDIENTS (#50.416) file for matches...
```

```
...OK? Yes// Y (Yes)
LATEX OK? Yes// (Yes)
```

Example: Pharmacist Answers ‘No’ and Intervention is Created

```
Select PATIENT: PSJPATIENT1, ONE
NO ALLERGY ASSESSMENT exists for this patient!
Would you like to enter one now? No// N (No)
Now creating Pharmacy Intervention
PROVIDER:
    Select one of the following:
        1          UNABLE TO ASSESS
        2          OTHER
RECOMMENDATION: ^
See 'Pharmacy Intervention Menu' if you want to delete this
intervention or for more options.
Press Return to continue...
```

The Patient Information Screen is displayed:

Example: Patient Information Screen

```
Patient Information      Feb 10, 2011@10:44:55      Page: 1 of 1
TESTYPATNM,TEST        Ward: GEN MED              A
PID: 666-00-0423       Room-Bed:                 Ht (cm) : _____ (_____)
DOB: 01/01/50 (61)     Att: Psj,Test            Wt (kg) : _____ (_____)
Sex: MALE              TrSp: Medical Observati   Admitted: 02/13/07
Dx: OBSERVATION        Last transferred: *****
CrCL: <Not Found> (CREAT: Not Found)   BSA (m2): _____

Allergies - Verified: PENICILLIN, ASPIRIN
Non-Verified:

Adverse Reactions:
Inpatient Narrative:
Outpatient Narrative:

Enter ?? for more actions
PU Patient Record Update      NO New Order Entry
DA Detailed Allergy/ADR List  IN Intervention Menu
VP View Profile               CM New Clinic Medication Entry
Select Action: View Profile//
```

The nurse can now enter a Patient Action at the “Select Action. View Profile//” prompt in the Action Area of the screen.

**4.2 Non-Verified/Pending Orders
[PSJU VBW]**

The *Non-Verified/Pending Orders* option allows easy identification and processing of non-verified and/or pending orders. This option will also show pending and pending renewal orders, which are orders from CPRS that have not been finished by Pharmacy Service. Unit Dose and IV orders are displayed using this option.

The *Non-Verified/Pending Orders* [PSJU VBW] option also allows for processing of clinic orders. Clinic orders are displayed separately from non-clinic orders.

If this is the first time into this option, the first prompt will be: Select IV ROOM NAME. If not, then the first prompt is “Display an Order Summary? NO// ”. A **YES** answer will allow the nurse to view an Order Summary of Pending/Non-Verified Order Totals by Ward Group, Clinic Group, and Clinic. The Pending IV, Pending Unit Dose, Non-Verified IV, and Non-Verified Unit Dose totals are then listed by Ward Group, Clinic Group, and Clinic. The nurse can then specify whether to display Non-Verified Orders, Pending Orders or both.

A ward group indicates inpatient nursing units (wards) that have been defined as a group within Inpatient Medications to facilitate processing of orders. A clinic group is a combination of outpatient clinics that have been defined as a group within Inpatient Medications to facilitate processing of orders.

Example: Non-Verified/Pending Orders

```

Non-Verified/Pending Orders
Select IV ROOM NAME:      TST ISC ROOM

You are signed on under the TST ISC ROOM IV ROOM

Enter IV LABEL device: HOME//    COMPUTER ROOM

Enter IV REPORT device: HOME//    COMPUTER ROOM

Display an Order Summary? NO// YES

Searching for Pending and Non-Verified orders.....

                Pending/Non-Verified Order Totals by Ward Group/Clinic Location

Ward Group/Clinic Location      Pending              Non-Verified
IV          UD          IV          UD

Ward Groups

GEN MED                          5          5          0          3
TST 1 Group                       1          3          0          0
TST 3                             0          2          0          0
^OTHER                            5          27         1          5

Clinics

45 CLINIC PATTERN                 5          0          0          0

1) Non-Verified Orders
2) Pending Orders
Select Order Type(s) (1-2) :

```



Next, the nurse can select which packages to display: Unit Dose Orders, IV Orders, or both, provided this user holds the PSJ RNFINISH and the PSJI RNFINISH keys. If the user holds only one of the RNFINISH keys, then either Unit Dose or IV orders will be displayed.

The next prompt allows the nurse to select non-verified and/or pending orders for a group (**G**), ward (**W**), clinic (**C**) patient (**P**), or priority (**PR**). When group is selected, a prompt to select by ward group (**W**) or clinic group (**C**) displays.

If ward or ward groups is selected, patients will be listed by wards, then by priority, then by teams, and then by patient name. Patients that have one or more STAT pending orders will be listed first, followed by patients with one or more ASAP pending orders, and then all other patients that have only ROUTINE pending orders. Within each priority, the patient listing is sorted alphabetically by team and then by patient name.

When priority is selected, only patients with the selected priority will display, listed by team and then by patient name.

Before the Patient Information screen displays, if the patient selected has no allergy assessment on file, the following prompt displays to the pharmacist/user:

"NO ALLERGY ASSESSMENT exists for this patient! Would you like to enter one now?"

- If the pharmacist/user enters 'YES,' he/she is prompted to enter the allergy information.
- If the pharmacist/user enters 'NO,' a pharmacist intervention is created, with a type of 'NO ALLERGY ASSESSMENT.' The pharmacist/user is then prompted for Provider and Recommendation information.



Note: If the selected patient is Sensitive, Discharged, both Sensitive and Discharged, or Deceased, there are variations in the process and in the prompts that display to the pharmacist/user.

Example: Pharmacist Answers 'Yes' and Enters Allergy Information

```
Select PATIENT: PSJPATIENT1, ONE  
  
NO ALLERGY ASSESSMENT exists for this patient!  
  
Would you like to enter one now? No// YES (Yes)  
  
Does this patient have any known allergies or adverse reactions? : Yes  
This patient has no allergy/adverse reaction data.  
  
Enter Causative Agent: LATEX  
  
Checking existing PATIENT ALLERGIES (#120.8) file for matches...
```

```

Now checking GMR ALLERGIES (#120.82) file for matches...
Now checking the National Drug File - Generic Names (#50.6)

Now checking the National Drug File - Trade Names (#50.67)
Now checking the INGREDIENTS (#50.416) file for matches...

...OK? Yes// Y (Yes)

LATEX OK? Yes// (Yes)

```

Example: Pharmacist Answers ‘No’ and Intervention is Created

```

Select PATIENT: PSJPATIENT1, ONE

NO ALLERGY ASSESSMENT exists for this patient!

Would you like to enter one now? No// N (No)

Now creating Pharmacy Intervention

PROVIDER:

    Select one of the following:
    1          UNABLE TO ASSESS
    2          OTHER

RECOMMENDATION: ^

See 'Pharmacy Intervention Menu' if you want to delete this
intervention or for more options.

Press Return to continue...

1) Unit Dose Orders
2) IV Orders

Select Package(s) (1-2): 1-2

Select by GROUP (G), WARD (W), CLINIC (C), PATIENT (P), or PRIORITY (PR): PATIENT <Enter>

Select by WARD GROUP (W) or CLINIC GROUP (C): WARD <Enter>

Select PATIENT:    PSJPATIENT1,ONE          000-00-0001  08/18/20    B-12 1 EAST

Select PATIENT: <Enter>

```

A profile prompt is displayed asking the nurse to choose a profile for the patient. The nurse can choose a short, long, or no profile. If **NO** profile is chosen, the orders for the patient selected will be displayed, for finishing or verification, by login date with the earliest date showing first. When a pending Unit Dose order has a STAT priority, this order will always be displayed first in the profile view and will be displayed in blinking reverse video. If a profile is chosen, the orders will be selected from this list for processing (any order may be selected). The following example displays a short profile.

Example: Short Profile

```

Select Unit Dose Medications Option: Non-Verified/Pending Orders
Display an Order Summary? NO// y YES

Searching for Pending and Non-Verified orders.....
.....

```


Pending/Non-Verified Order Totals by Ward Group/Clinic Location

| Ward Group/Clinic Location | Pending | | Non-Verified | |
|----------------------------|---------|----|--------------|----|
| | IV | UD | IV | UD |
| Ward Groups | | | | |
| BCMA | 56 | 75 | 10 | 30 |
| GEN MED | 5 | 5 | 0 | 0 |
| TEST AGAIN | 1 | 18 | 2 | 4 |
| TST 1 GROUP | 1 | 4 | 0 | 0 |
| TST 2 GROUP | 0 | 10 | 0 | 0 |
| TST 3 | 0 | 2 | 0 | 0 |
| ^OTHER | 6 | 32 | 0 | 4 |
| Clinics | | | | |
| 45 CLINIC PATTERN | 5 | 0 | 0 | 0 |
| BARBARA'S CLINIC | 1 | 0 | 0 | 0 |
| BECKY'S CLINIC | 1 | 0 | 0 | 0 |

- 1) Non-Verified Orders
- 2) Pending Orders

Select Order Type(s) (1-2): 1

- 1) Unit Dose Orders
- 2) IV Orders

Select Package(s) (1-2): 1

Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): gROUP

Select by WARD GROUP (W) or CLINIC GROUP (C): wARD

Select WARD GROUP: bcma

PHARMACY

...a few moments, please.....

ORDERS NOT VERIFIED BY A PHARMACIST - BCMA

| No. | TEAM | PATIENT |
|-----|-----------|----------------------------------|
| 1 | Not Found | BCMA,EIGHTY-PATIENT (0080) |
| 2 | Not Found | BCMA,EIGHTYEIGHT-PATIENT (0088) |
| 3 | Not Found | BCMA,EIGHTYFIVE-PATIENT (0085) |
| 4 | Not Found | BCMA,EIGHTYSIX-PATIENT (0086) |
| 5 | Not Found | BCMA,EIGHTYTHREE-PATIENT (0083) |
| 6 | Not Found | BCMA,EIGHT (0008) |
| 7 | Not Found | BCMA,FIFTEEN-PATIENT (0015) |
| 8 | Not Found | BCMA,FIFTYTHREE-PATIENT (0053) |
| 9 | Not Found | BCMA,FIFTYTWO-PATIENT (0052) |
| 10 | Not Found | BCMA,FORTYTWO-PATIENT (0042) |
| 11 | Not Found | BCMA,FOUR-PATIENT (0004) |
| 12 | Not Found | BCMA,FOURTEEN-PATIENT (0014) |
| 13 | Not Found | BCMA,NINETY-PATIENT (0090) |
| 14 | Not Found | BCMA,NINETYTWO-PATIENT (0092) |
| 15 | Not Found | BCMA,ONE HUNDRED-PATIENT (0100) |
| 16 | Not Found | BCMA,SEVENTYSEVEN-PATIENT (0077) |
| 17 | Not Found | BCMA,SIXTEEN-PATIENT (0016) |
| 18 | Not Found | BCMA,TEN-PATIENT (0010) |

Select 1 - 18: 1

Do you want to print a profile for the patient? NO// y YES

SHORT, LONG, or NO Profile? SHORT// SHORT

Select PRINT DEVICE: home;80;9999 COMPUTER ROOM

BCMA,EIGHTY-PATIENT Ward: BCMA
PID: 666-33-0080 Room-Bed: 12-B Ht(cm): 167.64 (03/30/2009)
DOB: 04/07/1935 (75) Wt(kg): 90.00 (03/30/2009)
Sex: FEMALE Admitted: 02/07/2002
Dx: HIGH FEVER
CrCL: <Not Found> (CREAT: Not Found) BSA (m2): 2.05
Allergies: CODEINE, ASPIRIN, CAFFEINE, STRAWBERRIES
ADR:

| 1 | N O N - V E R I F I E D | ? | ***** | ***** | N |
|----|---|---|-------|-------|---|
| 1 | ENOXAPARIN 30MG/0.3ML/SYR INJ | ? | ***** | ***** | N |
| | Give: XXX SC XXX@09-13 | | | | |
| 2 | MULTIVITAMINS/MINERALS TAB | ? | ***** | ***** | N |
| | Give: ONE TABLET PO QAM | | | | |
| 3 | PREDNISONE TAB | ? | ***** | ***** | N |
| | Give: 2000MG PO NOW | | | | |
| | P E N D I N G | | | | |
| 4 | DOCUSATE NA CAP,ORAL | ? | ***** | ***** | P |
| | Give: 100MG PO QAM | | | | |
| 5 | ACETAMINOPHEN TAB | ? | ***** | ***** | P |
| | Give: 325MG PO Q6H | | | | |
| 6 | in CISPLATIN 250MG IN 0.9% NAACL 250 ML | ? | ***** | ***** | P |
| 7 | in CISPLATIN 250MG IN 0.9% NAACL 250 ML 10? | ? | ***** | ***** | P |
| 8 | in CISPLATIN 250MG IN 0.9% NAACL 250 ML 10? | ? | ***** | ***** | P |
| 9 | in DOPAMINE 400MG/D5W 1600MCG/ML 250 ML | ? | ***** | ***** | P |
| 10 | in DOPAMINE IN 200ML D5W 200 ML 50MCG/KG/? | ? | ***** | ***** | P |
| 11 | HEPARIN/SODIUM CHLORIDE INJ,SOLN | ? | ***** | ***** | P |
| | Give: IV CONTINUOUS DRIP | | | | |

View ORDERS (1-11): 1

Patient: BCMA,EIGHTY-PATIENT Status: NON-VERIFIED
Orderable Item: ENOXAPARIN 30MG/0.3ML/SYR INJ
Instructions:
Dosage Ordered: XXX
Duration: Start: 04/05/2010 13:00
Med Route: SUBCUTANEOUS (SC) Stop: 07/14/2010 24:00
Schedule Type: NOT FOUND
Schedule: XXX@09-13
(No Admin Times)
Provider: PHARMACIST,ONE [w]

| Dispense Drugs | U/D | Units Disp'd | Units Ret'd | Inactive Date |
|---|-----|-----------------|----------------|------------------|
| ENOXAPARIN 30MG/0.3ML INJ SYRINGE 0.3ML | 1 | 0 | 0 | |

ORDER NOT VERIFIED
Self Med: NO

Entry By: PHARMACIST,ONE Entry Date: 04/05/10 14:36
Enter RETURN to continue or '^' to exit:

Select profile type for order processing.

SHORT, LONG, or NO Profile? SHORT// SHORT

Non-Verified/Pending Orders Mar 16, 2011@10:33:08 Page: 1 of 2
BCMA,EIGHTY-PATIENT Ward: BCMA A
PID: 666-33-0080 Room-Bed: 12-B Ht(cm): 167.64 (03/30/2009)
DOB: 04/07/35 (75) Wt(kg): 90.00 (03/30/2009)
Sex: FEMALE Admitted: 02/07/2002
Dx: HIGH FEVER Last transferred: *****
CrCL: <Not Found> (CREAT: Not Found) BSA (m2): 2.05

```

-----NON-VERIFIED-----
1 ENOXAPARIN 30MG/0.3ML/SYR INJ C 04/05/2010 07/14/2010 N
  Give: XXX SC XXX09-13
2 MULTIVITAMINS/MINERALS TAB C 09/21/2010 12/20/2010 N
  Give: ONE TABLET PO QAM
3 PREDNISON TAB O 09/21/2010 10/21/2010 N
  Give: 2000MG PO NOW
-----PENDING-----
4 DOCUSATE NA CAP,ORAL ? ***** ***** P
  Give: 100MG PO QAM
5 ACETAMINOPHEN TAB ? ***** ***** P
  Give: 325MG PO Q6H
+-----Enter ?? for more actions-----
PI Patient Information NO New Order Entry
PU Patient Record Update CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen//

```

The orders on the profile are sorted first by status (ACTIVE, NON-VERIFIED, NON-VERIFIED COMPLEX, PENDING RENEWALS, PENDING COMPLEX, PENDING, RECENTLY DISCONTINUED/EXPIRED), then alphabetically by SCHEDULE TYPE. Pending orders with a priority of STAT are listed first and are displayed in a bold and blinking text for easy identification. After SCHEDULE TYPE, orders are sorted alphabetically by DRUG (the drug name listed on the profile), and then in descending order by START DATE.

Example: Short Profile

```

Inpatient Order Entry Jun 12, 2006@23:12:54 Page: 1 of 1
PSJPATIENT11, ONE Ward: 2ASM
PID: 000-55-3421 Room-Bed: 102-1 Ht (cm): ( )
DOB: 12/02/23 (82) Wt (kg): 100.00 (06/24/03)
Sex: MALE Admitted: 12/11/01
CrCL: <Not Found> (CREAT: Not Found) BSA (m2):
Dx: HE IS A PAIN. Last transferred: 12/11/01
-----ACTIVE-----
1 CEFAZOLIN 1 GM C 06/12/2006 06/22/2006 H
  in 5% DEXTROSE 50 ML Q8H
2 CIMETIDINE TAB C 06/12/2006 07/12/2006 A
  Give: 300MG PO BID
3 FUROSEMIDE TAB C 06/01/2006 06/15/2006 HP
  Give: 40MG PO QAM
-----NON-VERIFIED-----
4 CAPTOPRIL TAB C 06/14/2006 06/28/2006 N
  Give: 25MG PO BID
-----PENDING RENEWALS-----
5 HALOPERIDOL TAB ? ***** ***** P
  Give: 5MG PO BID Renewed 06/14/2006
-----PENDING-----
6 HEPARIN/DEXTROSE INJ,SOLN ? ***** ***** P
  Give: IV
7 LACTULOSE SYRUP ? ***** ***** P NF
  Give: 10GM/15ML PO BID PRN
-----RECENTLY DISCONTINUED/EXPIRED (LAST X HOURS)-----
8 FOLIC ACID TAB C 06/14/2006 06/16/2006 D
  Give: 1MG PO QAM
9 GENTAMICIN 80 MG C 06/12/2006 06/12/2006 D
  in 5% DEXTROSE 100 ML Q8H
10 ISONIAZID TAB C 04/03/2006 04/17/2006 DF
  Give: 300MG PO QD
11 POTASSIUM CHLORIDE 10MEQ C 06/12/2006 06/12/2006 DA
  in 5% DEXTROSE 1000 ML Q8H
12 POTASSIUM CHLORIDE 40 MEQ C 06/12/2006 06/12/2006 DD
  in 5% DEXTROSE 250 ML 120 ml/hr

```

| | | | | | |
|----|--------------------------------------|---|------------|------------|----|
| 13 | PROPRANOLOL TAB Give: 40MG PO Q6H | C | 06/15/2006 | 06/20/2006 | DP |
| 14 | THIAMINE TAB Give: 100MG PO BID | C | 04/03/2006 | 04/17/2006 | E |

X - Represents the value set in either the ward or system parameter

Enter ?? for more actions

| | | | |
|----|-----------------------|----|-----------------------------|
| PI | Patient Information | NO | New Order Entry |
| PU | Patient Record Update | CM | New Clinic Medication Entry |
| SO | Select Order | | |

The HOURS OF RECENTLY DC/EXPIRED field (#7) has been created in the INPATIENT WARD PARAMETERS file (#59.6). The Inpatient Medications profiles will display the recently discontinued/expired orders that fall within the number of hours specified in this field. The value defined in this field will take precedence over the Inpatient System parameter. The inpatient ward parameter allows for a minimum value of one (1) hour and a maximum value of one hundred twenty (120) hours. The Inpatient Ward Parameters Edit [PSJ IWP EDIT] option allows the user to edit this new ward parameter. If this parameter is not set the software will use the value in the HOURS OF RECENTLY DC/EXPIRED field (#26.8) in the PHARMACY SYSTEM file (#59.7). If neither parameter is set the software will default to twenty-four (24) hours.

The HOURS OF RECENTLY DC/EXPIRED field (#26.8) has been created in the PHARMACY SYSTEM file (#59.7). The Inpatient Medications profiles will display the recently discontinued/expired orders that fall within the number of hours specified in this field. This parameter allows for a minimum value of one (1) hour and a maximum value of one hundred twenty (120) hours. The Systems Parameters Edit [PSJ SYS EDIT] option includes the ability for a user to edit this inpatient site parameter. If neither parameter is set the software will default to twenty-four (24) hours.

On the medication profile in the status column the codes and the action they represent are as follows.

Order Status: The current status of the order. These statuses include:

- A Active
- N Non-Verified
- O On Call (IV orders only)
- I Incomplete
- HP Placed on hold by provider through CPRS
- H Placed on hold via backdoor Pharmacy
- E Expired
- DP Discontinued by provider through CPRS
- DE Discontinued due to edit via backdoor Pharmacy (Unit Dose orders only)
- D Discontinued via backdoor Pharmacy (IV & UD); discontinued due to edit via backdoor Pharmacy (IV)

The Status column will also display some additional discontinue type actions performed on the order. The codes and the action they represent are as follows:

- DF Discontinued due to edit by a provider through CPRS
- DD Auto discontinued due to death
- DA Auto discontinued due to patient movements

Example: Profile

```

Inpatient Order Entry      Jun 12, 2006@23:12:54      Page: 1 of 1
PSJPATIENT11, ONE        Ward: 2ASM
PID: 000-55-3421          Room-Bed: 102-1           Ht (cm): _____ (_____)
DOB: 12/02/23 (82)       Wt (kg): 100.00 (06/24/03)
Sex: MALE                 Admitted: 12/11/01
Dx: HE IS A PAIN.         Last transferred: 12/11/01
CrCL: <Not Found> (CREAT: Not Found)   BSA (m2): _____

- - - - - A C T I V E - - - - -
1  CEFAZOLIN 1 GM          C 06/12/2006 06/22/2006 H
   in 5% DEXTROSE 50 ML Q8H
2  CIMETIDINE TAB         C 06/12/2006 07/12/2006 A
   Give: 300MG PO BID
3  FUROSEMIDE TAB         C 06/01/2006 06/15/2006 HP
   Give: 40MG PO QAM
- - - - - N O N - V E R I F I E D - - - - -
4  CAPTOPRIL TAB          C 06/14/2006 06/28/2006 N
   Give: 25MG PO BID
- - - - - P E N D I N G   R E N E W A L S - - - - -
5  HALOPERIDOL TAB        ? *****          ***** P
   Give: 5MG PO BID        Renewed: 06/14/2006
- - - - - P E N D I N G - - - - -
6  HEPARIN/DEXTROSE INJ,SOLN ? *****          ***** P
   Give: IV
7  LACTULOSE SYRUP        ? *****          ***** P NF
   Give: 10GM/15ML PO BID PRN

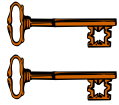
- - - - - R E C E N T L Y   D I S C O N T I N U E D / E X P I R E D   ( L A S T   2 4   H O U R S )   - - - - -
8  FOLIC ACID TAB         C 06/14/2006 06/16/2006 D
   Give: 1MG PO QAM
9  GENTAMICIN 80 MG       C 06/12/2006 06/12/2006 D
   in 5% DEXTROSE 100 ML Q8H
10 ISONIAZID TAB          C 04/03/2006 04/17/2006 DF
   Give: 300MG PO QD
11 POTASSIUM CHLORIDE 10MEQ C 06/12/2006 06/12/2006 DA
   in 5% DEXTROSE 1000 ML Q8H
12 POTASSIUM CHLORIDE 40 MEQ C 06/12/2006 06/12/2006 DD
   in 5% DEXTROSE 250 ML 120 ml/hr
13 PROPRANOLOL TAB        C 06/15/2006 06/20/2006 DP
   Give: 40MG PO Q6H
14 THIAMINE TAB           C 04/03/2006 04/17/2006 E
   Give: 100MG PO BID

Enter ?? for more actions
PI Patient Information      NO New Order Entry
PU Patient Record Update   CM New Clinic Medication Entry
SO Select Order
  
```

The nurse can enter a Patient Action at the “Select Action Quit/” prompt in the Action Area of the screen or choose a specific order or orders.



The following keys may be assigned if the user already holds the PSJ RNURSE key:



4.2.1 Display of Discontinued or Edited IV Orders

The *Non-Verified/Pending Orders* [PSJU VBW] option allows discontinued or edited IV orders from CPRS to display to the user prior to taking action to finish or edit the pending order.

This allows the user to pull IVs that are discontinued and prevent them from being sent to the patient ward and potentially be given in error. It also allows the user to perform a drug-drug interaction check, since recently discontinued medications can still cause a drug interaction.

The discontinued and edited records which are viewed are temporary and are stored in the IV MEDICATION ORDERS DC'D (#52.75) file. **These records are only intended to help identify discontinued IV orders for a particular ward or a ward group and will not include any clinics or clinic groups.** The records act as alerts, and taking action on these records does not impact the actual order.

The user can delete the discontinued IV orders from the IV MEDICATION ORDERS DC'D (#52.75) file when appropriate.

The following actions are available for records being viewed in this option: (P)rint, (R)efresh, (D)elete, or (I)gnore:

- The (Print) action allows the viewed orders to be printed to a device. Optionally, those records can be deleted, once printed. Any report queued to a device will only contain discontinued orders that were logged at the time of queuing.
- The (Refresh) action re-displays the records.
- The (Delete) action removes the currently viewed records from the file so they will no longer be displayed.
- The (Ignore) action continues with the usual next prompt and take no action on the records.

In addition to helping prevent medication errors, this modification also allows labels to be pulled for IVs that are not yet prepared. This saves resources, including the drug (especially helpful when drug shortages occur), and time spent managing pharmacy orders. For IVs that are already prepared, the user may reuse the prepared bag on another patient while it is still within the expiration date.

Example: Non-Verified/Pending Orders

```
Select OPTION NAME: PSJU VBW          Non-Verified/Pending Orders
Select IV ROOM NAME:  CHEYENNE RM#272
Display an Order Summary? NO// <enter>

1) Non-Verified Orders
2) Pending Orders

Select Order Type(s) (1-2): 1-2

1) Unit Dose Orders
```

```

2) IV Orders

Select Package(s) (1-2): 1-2

Select by GROUP (G), WARD (W), CLINIC (C), PATIENT (P) or PRIORITY (PR): GROUP

Select by WARD GROUP (W) or CLINIC GROUP (C): WARD

Select WARD GROUP: C WARD EAST WINGS

```

Example: Output

```

IV ORDER D/Cs and EDITS Thru CPRS Since 6/1/2016@14:21 (past 840 hrs)
IV ROOM: CHEYENNE RM#272          GROUP: C WARD EAST WINGS
WARD - ROOM/BED  DRUG              PATIENT          PID  DT/TM
-----
C MEDICIN  9999  ABCIXIMAB          AAADTSXY,QLYJH  4507 06/06/2016
Edited              Give: IV 30 ml/hr                @1:15 pm
C MEDICIN  9999  ABCIXIMAB          AAADTSXY,QLYJH  4507 06/07/2016
Edited              Give: IV 30 ml/hr                @1:56 pm

(P)rint, (R)efresh, (D)elete, or (I)gnore?: (P/R/D/I): I// gnore

```

4.3 Inpatient Order Entry [PSJ OE]

The *Inpatient Order Entry* [PSJ OE] option, if assigned, allows the nurse to create, edit, renew, hold, and discontinue Unit Dose and IV orders, as well as put existing IV orders on call for any patient, while remaining in the Unit Dose Medications module.

The *Inpatient Order Entry* [PSJ OE] option also allows for processing of clinic orders. Clinic orders are displayed separately from non-clinic orders.

When the user accesses the *Inpatient Order Entry* option from the Unit Dose Medications module for the first time within a session, a prompt is displayed to select the IV room in which to enter orders. When only one active IV room exists, the system will automatically select that IV room. The user is then given the label and report devices defined for the IV room chosen. If no devices have been defined, the user will be given the opportunity to choose them. If this option is exited and then re-entered within the same session, the current label and report devices are shown. The following example shows the option re-entered during the same session.

Example: Inpatient Order Entry

```

Select Unit Dose Medications Option: IOE Inpatient Order Entry
You are signed on under the BIRMINGHAM ISC IV ROOM
Current IV LABEL device is: NT TELNET TERMINAL
Current IV REPORT device is: NT TELNET TERMINAL
Select PATIENT: PSJPATIENT1

```

At the “Select PATIENT:” prompt, the user can enter the patient’s name or enter the first letter of the patient’s last name and the last four digits of the patient’s social security number (e.g., P0001).

Before the Patient Information screen displays, if the patient selected has no allergy assessment on file, the following prompt displays to the pharmacist/user:

"NO ALLERGY ASSESSMENT exists for this patient! Would you like to enter one now?"

- If the pharmacist/user enters 'YES,' he/she is prompted to enter the allergy information.
- If the pharmacist/user enters 'NO,' a pharmacist intervention is created, with a type of 'NO ALLERGY ASSESSMENT.' The pharmacist/user is then prompted for Provider and Recommendation information.



Note: If the selected patient is Sensitive, Discharged, both Sensitive and Discharged, or Deceased, there are variations in the Order Entry process and in the prompts that display to the pharmacist/user.

Example: Pharmacist Answers 'Yes' and Enters Allergy Information

```
Select PATIENT: PSJPATIENT1, ONE

NO ALLERGY ASSESSMENT exists for this patient!

Would you like to enter one now? No// YES (Yes)

Does this patient have any known allergies or adverse reactions? : Yes
This patient has no allergy/adverse reaction data.

Enter Causative Agent: LATEX

Checking existing PATIENT ALLERGIES (#120.8) file for matches...

Now checking GMR ALLERGIES (#120.82) file for matches...

Now checking the National Drug File - Generic Names (#50.6)

Now checking the National Drug File - Trade Names (#50.67)

Now checking the INGREDIENTS (#50.416) file for matches...

...OK? Yes// Y (Yes)

LATEX OK? Yes// (Yes)
```

Example: Pharmacist Answers 'No' and Intervention is Created

```
Select PATIENT: PSJPATIENT1, ONE

NO ALLERGY ASSESSMENT exists for this patient!

Would you like to enter one now? No// N (No)

Now creating Pharmacy Intervention

PROVIDER:

Select one of the following:

1          UNABLE TO ASSESS
2          OTHER

RECOMMENDATION: ^

See 'Pharmacy Intervention Menu' if you want to delete this
```



```
intervention or for more options.  
Press Return to continue...
```

The Patient Information Screen is displayed:

Example: Patient Information Screen

```
Patient Information          Sep 12, 2000 10:36:38          Page: 1 of 1  
PSJPATIENT1,ONE           Ward: 1 EAST  
  PID: 000-00-0001         Room-Bed: B-12           Ht (cm) : _____ (_____)  
  DOB: 08/18/20 (80)      Wt (kg) : _____ (_____)  
  Sex: MALE                Admitted: 05/03/00  
  Dx: TESTING              Last transferred: *****  
  CrCL: <Not Found> (CREAT: Not Found)    BSA (m2) : _____  
  
Allergies/Reactions: No Allergy Assessment  
Remote:  
  
Adverse Reactions:  
  Inpatient Narrative: INP NARR...  
  Outpatient Narrative:  
  
Enter ?? for more actions  
PU Patient Record Update          NO New Order Entry  
DA Detailed Allergy/ADR List      IN Intervention Menu  
VP View Profile                   CM New Clinic Medication Entry  
Select Action: View Profile//
```

The nurse can now enter a Patient Action at the “Select Action: View Profile//” prompt in the Action Area of the screen.

The DURATION OF ADMINISTRATION prompt in the *Inpatient Order Entry* [PSJ OE] option calculates the appropriate removal times for medications requiring removal and displays them for verification by the Pharmacist.

Example: Explanation of Duration of Administration Prompt

```
The Duration of Administration is the period of time the medication remains on the patient  
before removal. If this medication order requires a drug-free period prior to the next  
administration, enter a Duration of Administration here.  
  
If this medication order does not require a drug-free period prior to the next  
administration, this field should be left blank.  
  
Enter the number of hours the medication will remain on the patient in the Duration of  
Administration field. The BCMA user will be prompted to remove the medication after the  
Duration of Administration period.  
  
The Duration of Administration cannot match or exceed the order frequency (the period of time  
between two Admin Times), except for BID, TID and QID schedules.
```

4.4 PADE Main Menu Option

A new menu option, the Pharmacy Automated Dispensing Equipment (PADE) Main Menu, has been added to Unit Dose Medications. The PADE menu option allows the user to transmit inpatient medication orders to PADE so that the user has the most current information necessary to manage and dispense medications.

This menu has the following four options:

- SA PADE Send Area Setup
- SS PADE System Setup
- IN PADE Inbound Inventory Setup
- SC PADE Send Surgery Cases

4.5 Patient Actions

The Patient Actions are the actions available in the Action Area of the List Manager Screen. These actions pertain to the patient information and include editing, viewing, and new order entry.

4.5.1 Patient Record Update

The Patient Record Update action allows editing of the Inpatient Narrative and the Patient's Default Stop Date and Time for Unit Dose Order entry.

Example: Patient Record Update

```
Patient Information      Sep 12, 2000 14:39:07      Page: 1 of 1
PSJPATIENT1,ONE       Ward: 1 EAST
  PID: 000-00-0001     Room-Bed: B-12      Ht (cm) : _____ ( _____ )
  DOB: 08/18/20 (80)   Wt (kg) : _____ ( _____ )
  Sex: MALE            Admitted: 05/03/00
  Dx: TESTING          Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)   BSA (m2): _____

Allergies/Reactions: No Allergy Assessment
Remote:
Adverse Reactions:
Inpatient Narrative: INP NARR ...
Outpatient Narrative:

Enter ?? for more actions
PU Patient Record Update      NO New Order Entry
DA Detailed Allergy/ADR List  IN Intervention Menu
VP View Profile               CM New Clinic Medication Order Entry
Select Action: View Profile// PU
INPATIENT NARRATIVE: INP NARR...// Narrative for Patient PSJPATIENT1
UD DEFAULT STOP DATE/TIME: SEP 21,2000@24:00//
```

The “INPATIENT NARRATIVE: INP NARR...//” prompt allows the nurse to enter information in a free text format, up to 250 characters.

The “UD DEFAULT STOP DATE/TIME:” prompt is the date and time entry to be used as the default value for the STOP DATE/TIME of the Unit Dose orders during order entry and renewal processes. This value is used only if the corresponding ward parameter is enabled. The order entry and renewal processes will sometimes change this date and time.



Note: If the Unit Dose order, being finished by the nurse, is received from CPRS and has a duration assigned, the UD DEFAULT STOP DATE/TIME is displayed as the Calc Stop Date/Time.

When the SAME STOP DATE ON ALL ORDERS parameter is set to Yes, the module will assign the same default stop date for each patient. This date is initially set when the first order is entered for the patient, and can change when an order for the patient is renewed. This date is shown as the default value for the stop date of each of the orders entered for the patient.



Examples of Valid Dates and Times:

- JAN 20 1957 or 20 JAN 57 or 1/20/57 or 012057
- T (for TODAY), T+1 (for TOMORROW), T+2, T+7, etc.
- T-1 (for YESTERDAY), T-3W (for 3 WEEKS AGO), etc.
- If the year is omitted, the computer uses CURRENT YEAR. Two-digit year assumes no more than 20 years in the future, or 80 years in the past.
- If only the time is entered, the current date is assumed.
- Follow the date with a time, such as JAN 20@10, T@10AM, 10:30, etc.
- The nurse may enter a time, such as NOON, MIDNIGHT, or NOW.
- The nurse may enter NOW+3' (for current date and time plus 3 minutes--the apostrophe following the number indicates minutes).
- Time is REQUIRED in this response.

4.5.2 New Order Entry

Unit Dose

The New Order Entry action allows the nurse to enter new Unit Dose and IV orders for the patient depending upon the order option selected (*Order Entry Non-Verified Pending Orders*, or *Inpatient Order Entry*). Only one user is able to enter new orders on a selected patient due to the patient lock within the VistA applications. This minimizes the chance of duplicate orders.

For Unit Dose order entry, a response must be entered at the “Select DRUG:” prompt. The nurse can select a particular drug or enter a pre-defined order set.

Depending on the entry in the “Order Entry Process:” prompt in the *Inpatient User Parameters Edit* option, the nurse will enter a regular or abbreviated order entry process. The abbreviated order entry process requires entry into fewer fields than regular order entry. Beside each of the prompts listed below, in parentheses, will be the word regular, for regular order entry and/or abbreviated, for abbreviated order entry.

- “Select DRUG:” (Regular and Abbreviated)

Nurses select Unit Dose medications directly from the DRUG file. The Orderable Item for the selected drug will automatically be added to the order, and all Dispense Drugs entered for the order must be linked to that Orderable Item. If the Orderable Item is edited, data in the DOSAGE ORDERED field and the DISPENSE DRUG field will be deleted. If multiple Dispense Drugs are needed in an order, they may be entered by selecting the DISPENSE DRUG field from the edit list before accepting the new order. After each Dispense Drug is selected, it will be checked against the patient's current medications for duplicate therapy, drug-drug/drug-allergy interactions, dangerous meds for patient >64, Aminoglycoside ordered, and Glucophage lab results order checks. (See Section 4.9 Order Checks for more information.)

The nurse can enter an order set at this prompt. An order set is a group of pre-written orders. The maximum number of orders is unlimited. Order sets are created and edited using the *Order Set Enter/Edit* option found under the *Supervisor's Menu*.

Order sets are used to expedite order entry for drugs that are dispensed to all patients in certain medical practices or for certain procedures. Order sets are designed to be used when a recognized pattern for the administration of drugs can be identified. For example:

- A pre-operative series of drugs administered to all patients undergoing a certain surgical procedure.
- A certain series of drugs to be dispensed to all patients prior to undergoing a particular radiographic procedure.
- A certain group of drugs, prescribed by a provider for all patients, that is used for treatment on a certain medical ailment or emergency.

Order sets allow rapid entering of this repetitive information, expediting the whole order entry process. Experienced users might want to set up most of their common orders as order sets.

Order set entry begins like other types of order entry. At the "Select DRUG:" prompt, **S.NAME** should be entered. The **NAME** represents the name of a predefined order set. The characters **S.** tell the software that this will not be a single new order entry for a single drug, but a set of orders for multiple drugs. The **S.** is a required prefix to the name of the order set. When the user types the characters **S.?**, a list of the names of the order sets that are currently available will be displayed. If **S.** (<Spacebar> and <Enter>) is typed, the previous order set is entered.

After the entry of the order set the software will prompt for the Provider's name and Nature of Order. After entry of this information, the first order of the set will automatically be entered. The options available are different depending on the type of order entry process that is enabled—regular, abbreviated, or ward. If regular or abbreviated order entry is enabled, the user will be shown one order at a time, all fields for each order of the order set and then the "Select Item(s): Next Screen //" prompt. The user can then choose to take an action on the order. Once an action is taken or bypassed, the next order of the order set will be entered automatically. After entry of all the orders in the order set, the software will prompt for more orders for the patient. At this point the user can proceed exactly as in new order entry, and respond accordingly.

When a drug is chosen, if an active drug text entry for the Dispense Drug and/or Orderable Item linked to this drug exists, then the prompt, “Restriction/Guideline(s) exist. Display?:” will be displayed along with the corresponding defaults. The drug text indicator will be <DIN> and will be displayed on the right hand corner on the same line as the Orderable Item. This indicator will be highlighted.

If the Dispense Drug or Orderable Item has a non-formulary status, this status will be displayed on the screen as “*N/F*” beside the Dispense Drug or Orderable Item.

Overrides/Interventions (OCI):

When the OCI displays on the Order Detail screen, it indicates there are associated CPRS Provider Overrides and/or Pharmacist Interventions for this order. The Overrides/Interventions <OCI> will display on the same line as the Orderable Item field, to the left of the drug text indicator <DIN> (if it exists).

```
* (1) Orderable Item: METRONIDAZOLE TAB <OCI><DIN>
  Instructions: 250MG
* (2) Dosage Ordered: 250MG
  Duration: (3) Start: 07/11/2011 15:33
* (4) Med Route: ORAL REQUESTED START: 07/11/2011 16:00
  (5) Stop: 07/25/2011 15:33
  (6) Schedule Type: CONTINUOUS
* (8) Schedule: Q36H
  (9) Admin Times:
* (10) Provider: PSJPROVIDER,ONE[es]
  (11) Special Instructions:

  (12) Dispense Drug U/D Inactive Date
  METRONIDAZOLE 250MG TAB 1
+ Enter ?? for more actions
+ Enter ?? for more actions
ED Edit AC ACCEPT
Select Item(s): Next Screen// AC ACCEPT
```

If the OCI displays on the Order Detail screen, the user can type “OCI” to display the CPRS Provider Overrides and/or Pharmacist Interventions associated with the order, as well as any historical overrides and interventions, if applicable.

- **“DOSAGE ORDERED:”** (Regular and Abbreviated)

To allow pharmacy greater control over the order display shown for Unit Dose orders on profiles, labels, MARs, etc., the DOSAGE ORDERED field is not required if only one Dispense Drug exists in the order. If more than one Dispense Drug exists for the order, then this field is required.

When a Dispense Drug is selected, the selection list/default will be displayed based on the Possible Dosages and Local Possible Dosages.

Example: Dispense Drug with Possible Dosages

```
Select DRUG: BACLOFEN
  Lookup: GENERIC NAME
BACLOFEN 10 MG TAB MS200
  ...OK? Yes// (Yes)

Now doing allergy checks.Please wait...

Now processing Clinical Reminder Order Checks.Please wait ...
```

```

Now Processing Enhanced Order Checks!Please wait...

Press Return to continue.....

Available Dosage(s)
1. 5MG
2. 10MG
3. 15MG
4. 20MG
5. 30MG
6. 40MG

Select from list of Available Dosages or Enter Free Text Dose:

```

All Local Possible Dosages will be displayed within the selection list/default.

Example: Dispense Drug with Local Possible Dosages

```

Select DRUG:  GENTAMICIN SULFATE 0.1% CREAM    DE101    DERM CLINIC ONLY
...OK? Yes//    (Yes)

Now doing allergy checks.  Please wait...

Now processing Clinical Reminder Order Checks. Please wait ...

Now Processing Enhanced Order Checks!  Please wait...

Press Return to continue.....

Available Dosage(s)
1.
2. SMALL AMOUNT
3. THIN FILM
4. MODERATE AMOUNT
5. LIBERAL AMOUNT

Select from list of Available Dosages or Enter Free Text Dose:

```



The user has the flexibility of how to display the order view on the screen. When the user has chosen the drug and when no Dosage Ordered is defined for an order, the order will be displayed as:

Example: Order View Information when Dosage Ordered is not Defined

```

DISPENSE DRUG NAME
Give: UNITS PER DOSE  MEDICATION ROUTE  SCHEDULE

```

When the user has chosen the drug and Dosage Ordered is defined for the order, it will be displayed as:

Example: Order View Information when Dosage Ordered is Defined

```

ORDERABLE ITEM NAME  DOSE FORM
Give: DOSAGE ORDERED  MEDICATION ROUTE  SCHEDULE

```

The DOSAGE ORDERED and the UNITS PER DOSE fields are modified to perform the following functionality:

- Entering a new backdoor order:
 1. If the Dosage Ordered entered is selected from the Possible Dosages or the Local Possible Dosages, the user will not be prompted for the Units Per Dose. Either the BCMA Units Per Dose or the Dispense Units Per Dose, defined under the Dispense Drug, will be used as the default for the Units Per Dose.
 2. If a free text dose is entered for the Dosage Order, the user will be prompted for the Units Per Dose. A warning message will display when the entered Units Per Dose does not seem to be compatible with the Dosage Ordered. The user will continue with the next prompt
- Entering a new CM Clinic Medication order:
 1. The action, CM New Clinic Medication Entry, allows users to enter Clinic Medication orders. The following menu options can be used to enter a clinic order:
 - a. *Inpatient Order Entry* [PSJ OE] option
 - b. *Order Entry (IV)* [PSJI ORDER] option
 - c. *Order Entry* [PSJU NE] option
- Finishing pending orders:
 1. If the Dosage Ordered entered is selected from the Possible Dosages or the Local Possible Dosages, the user will not be prompted for the Units Per Dose. Either the BCMA Units Per Dose or the Dispense Units Per Dose, defined under the Dispense Drug, will be used as the default for the Units Per Dose.
 2. If a free text dose was entered for the pending order, the UNITS PER DOSE field will default to 1. A warning message will display when the Units Per Dose does not seem to be compatible with the Dosage Ordered when the user is finishing/verifying the order.
- Editing order:
 1. Any time the DOSAGE ORDERED or the UNITS PER DOSE field is edited, a check will be performed and a warning message will display when the Units Per Dose does not seem to be compatible with the Dosage Ordered. Neither field will be automatically updated.



- **“UNITS PER DOSE:” (Regular)**

This is the number of units (tablets, capsules, etc.) of the selected Dispense Drug to be given when the order is administered.

When a selection is made from the dosage list provided at the “DOSAGE ORDERED:” prompt, then this “UNITS PER DOSE:” prompt will not be displayed unless the selection list/default contains Local Possible Dosages. If a numeric dosage is entered at the “DOSAGE ORDERED:” prompt, but

not from the selection list, then the default for “UNITS PER DOSE:” will be calculated as follows: $DOSAGE\ ORDERED / STRENGTH = UNITS\ PER\ DOSE$ and will not be displayed.

If free text or no value is entered at the “DOSAGE ORDERED:” prompt, the “UNITS PER DOSE:” prompt will be displayed. When the user presses <Enter> past the “UNITS PER DOSE:” prompt, without entering a value, a “1” will be stored. A warning message will be generated when free text is entered at the “DOSAGE ORDERED:” prompt and no value or an incorrect value is entered at the “UNITS PER DOSE:” prompt.

- **“MED ROUTE:” (Regular and Abbreviated)**

Inpatient Medications uses the medication route provided by CPRS as the default when finishing an IV order, and transmits any updates to an order’s medication route to CPRS.

Inpatient Medications determines the default medication route for a new order entered through Inpatient Medications, and sends the full Medication Route name for display on the BCMA VDL.

This is the administration route to be used for the order. If a Medication Route is identified for the selected Orderable Item, it will be used as the default for the order. Inpatient Medications applies the Medication Route provided by CPRS as the default when finishing an IV order.

- If no medication route is specified, Inpatient Medications will use the Medication Route provided by CPRS as the default when finishing an IV order.
- If updates are made to the medication route, Inpatient Medications will transmit any updates to an order’s Medication Route to CPRS.
- Inpatient Medications determines the default Medication Route for a new order.
- Inpatient Medications sends the full Medication Route name for display on the BCMA VDL.

PSJ*5*366 added a medication route “short list” and “long list” for selection of a medication route during the order finishing and order entry process. The short list includes only the routes associated with the dosage form for the selected medication in the PHARMACY ORDERABLE ITEM file (#50.7). When entering an order, entering “?” at the Medication Route prompt will display the short list of routes. Entering “??” at the Medication Route prompt will display the long list of routes. The system will allow either partial matches for routes that are found in the short list, or exact full-text matches or abbreviation matches for other routes in the MEDICATION ROUTES file (#51.2).

Prior to PSJ*5*366 if no default med route was defined, the system set the med route to PO or ORAL. This patch removes that automatic PO or ORAL default.

If a route entered does not match any of the defined medication routes, then “??” displays.



- **Sequence of Schedule Type and Schedule Prompts:**

Prior to PSJ*5*113, the order of the prompts in Inpatient Medications order entry was Schedule Type followed by Schedule. The sequence of the prompts was changed so that the Schedule prompt falls before the Schedule Type prompt.

- **Schedule Validation Requirement One**
When a schedule is selected at the Schedule Field, the system shall default the Schedule Type for the schedule entered from the Administration Schedule File into the order.
- **Schedule Validation Requirement Two**
If the user changes the schedule, a warning message will be generated stating that the administration times and the schedule type for the order will be changed to reflect the defaults for the new schedule selected. The warning message: “This change in schedule also changes the ADMIN TIMES and SCHEDULE TYPE of this order” shall appear.
- **Schedule Validation Check Three**
If the schedule type is changed from Continuous to PRN during an edit, the system shall automatically remove any administration times that were associated with the schedule so that the order will not include administration times.
- **“SCHEDULE:” (Regular and Abbreviated)**
This defines the frequency the order is to be administered. Schedules must be selected from the ADMINISTRATION SCHEDULE file, with the following exceptions:
 - Schedule containing PRN: (Ex. TID PC PRN). If the schedule contains PRN, the base schedule must be in the ADMINISTRATION SCHEDULE file.
 - Day of week schedules (Ex. MO-FR or MO-FR@0900)
 - Admin time only schedules (Ex. 09-13)

While entering a new order, if a Schedule is defined for the selected Orderable Item, that Schedule is displayed as the default for the order.

- **“SCHEDULE TYPE:” (Regular)**
This defines the type of schedule to be used when administering the order. If the Schedule Type entered is one-time, the ward parameter, DAYS UNTIL STOP FOR ONE-TIME, is accessed to determine the stop date. When the ward parameter is not available, the system parameter, DAYS UNTIL STOP FOR ONE-TIME, will be used to determine the stop date. When neither parameter has been set, one-time orders will use the ward parameter, DAYS UNTIL STOP DATE/TIME, to determine the stop date instead of the start and stop date being equal.

When a new order is entered or an order entered through CPRS is finished by pharmacy, the default Schedule Type is determined as described below:

- If no Schedule Type has been found and a Schedule Type is defined for the selected Orderable Item, that Schedule Type is used for the order.
- If no Schedule Type has been found and the schedule contains PRN, the Schedule Type is PRN.

- If no Schedule Type has been found and the schedule is “ON CALL”, “ON-CALL” or “ONCALL”, the Schedule Type is ON CALL.
- Schedules meant to cause orders to display as ON CALL in BCMA must be defined in the ADMINISTRATION SCHEDULE (#51.1) file with a schedule type equal to “ON CALL.”
- For all others, the Schedule Type is CONTINUOUS.



- **ADMINISTRATION TIME:” (Regular)**

This defines the time(s) of day the order is to be given. Administration times must be entered in a two or four digit format. If you need to enter multiple administration times, they must be separated by a dash (e.g., 09-13 or 0900-1300). If the schedule for the order contains “PRN”, all Administration Times for the order will be ignored. In new order entry, the default Administration Times are determined as described below:

- If Administration Times are defined for the selected Orderable Item, they will be shown as the default for the order.
- If Administration Times are defined in the INPATIENT WARD PARAMETERS file for the patient’s ward and the order’s schedule, they will be shown as the default for the order.
- If Administration Times are defined for the Schedule, they will be shown as the default for the order.

- **Order Validation Checks:**

The following order validation checks will apply to Unit Dose orders and to intermittent IV orders.



- **Order Validation Check One**

For intermittent IV orders, references to an order’s Schedule Type will refer to either the TYPE OF SCHEDULE from the Administration Schedule file (#51.1), or PRN for schedule names in PRN format, or CONTINUOUS for schedule names in Day of Week format.

- **Order Validation Check Two**

The system shall use the schedule type of the schedule from the Administration Schedule file independent of the schedule name when processing an order to determine if administration times are required for a particular order.

- **Order Validation Check Three**

If an order has the Schedule Type of Continuous, the Schedule entered is NOT in Day of Week (Ex. MO-FR) or PRN (Ex. TID PC PRN) format, and the frequency associated with the schedule is one day (1440 minutes) or less, the system will not allow the number of administration times associated with the order to be greater than the number of administration times calculated for that frequency. The system will allow for the number of administration times to be LESS than the calculated administration times for that frequency but not less than one administration time. (For example, an order with a schedule of BID is associated with a frequency of 720 minutes. The frequency is divided into 1440 minutes (24 hours) and the resulting calculated administration time is two. For this order, the number of administration times allowed may be no greater than two, but no less than one. Similarly, a schedule frequency of 360 minutes must have at least one administration time but cannot exceed four administration times.)

If an order has the Schedule Type of Continuous, the Schedule entered is NOT in Day of Week (Ex. MO-FR) or PRN (Ex. TID PC PRN) format, and the frequency associated with the schedule is **greater than one day** (1440 minutes) and evenly divisible by 1440, only one administration time is permitted. (For example, an order with a schedule frequency of 2880 minutes must have ONLY one administration time. If the frequency is greater than 1440 minutes and not evenly divisible by 1440, no administration times will be permitted.)

The system shall present warning/error messages to the user if the number of administration times is less than or greater than the maximum admin times calculated for the schedule or if no administration times are entered. If the number of administration times entered is less than the maximum admin times calculated for the schedule, the warning message: “The number of admin times entered is fewer than indicated by the schedule.” shall appear. In this case, the user will be allowed to continue after the warning. If the number of administration times entered is greater than the maximum admin times calculated for the schedule, the error message: “The number of admin times entered is greater than indicated by the schedule.” shall appear. In this case, the user will not be allowed to continue after the warning. If no admin times are entered, the error message: “This order requires at least one administration time.” shall appear. The user will not be allowed to accept the order until at least one admin time is entered.

- **Order Validation Check Four**

If an order has a Schedule Type of Continuous and is an Odd Schedule {a schedule whose frequency is not evenly divisible by or into 1440 minutes (1 day)}, the system shall prevent the entry of administration times. For example, Q5H, Q17H – these are not evenly divisible by 1440. In these cases, the system shall prevent access to the administration times field. No warning message is presented.

- **Order Validation Check Five**

If an order has a Schedule Type of Continuous with a non-odd frequency of greater than one day, (1440 minutes) the system shall prevent more than one administration time, for example, schedules of Q72H, Q3Day, and Q5Day.

If the number of administration times entered exceeds one, the error message: “This order requires one admin time” shall appear. If no administration times are entered, the error message: “This order requires at least one administration time.” shall appear. The user will not be allowed to accept the order until at least one admin time is entered.

- **Order Validation Check Six**

If an order has a Schedule Type of One Time, or if an order is entered with a schedule that is defined in the schedule file as One Time, the system shall prevent the user from entering more than one administration time.

If more than one administration time is entered, the error message: “This is a One Time Order - only one administration time is permitted.” shall appear. No administration times are required.

- **Order Validation Check Seven**

For an order with a Schedule Type of Continuous where no doses/administration times are scheduled between the order’s Start Date/Time and the Stop Date/Time, the system shall present a warning message to the user and not allow the order to be accepted or verified until the Start/Stop Date Times, schedule, and/or administration times are adjusted so that at least one dose is scheduled to be given.

If the stop time will result in no administration time between the start time and stop time, the error message: “There must be an admin time that falls between the Start Date/Time and Stop Date/Time.” shall appear.

- **“SPECIAL INSTRUCTIONS:” (Regular and Abbreviated)**

These are the Special Instructions (using abbreviations whenever possible) needed for the administration of this order. This field allows unlimited characters. For new order entry, when Special Instructions are added, the nurse is prompted whether to flag this field for display in a BCMA message box. When finishing orders placed through CPRS, where the Provider Comments are not too long to be placed in this field, the nurse is given the option to copy the comments into this field. Should the nurse choose to copy and flag these comments for display in a BCMA message box on the Virtual Due List (VDL), an exclamation mark “!” will appear in the order next to this field.

The following menu choices regarding copying of provider comments are available:

- **Y** Yes (copy) – This will copy Provider Comments into the Special Instructions field
- **N** No (don’t copy) – This will bypass copying Provider Comments
- **!** Copy and flag for display in a BCMA Message Box – This will copy Provider Comments into the Special Instructions field and flag for display in a BCMA Message Box
- **E** Copy and Edit – This will copy Provider Comments into the Special Instructions field and open in a word processing window for editing

Example: Special Instructions

```
PROVIDER COMMENTS:
This text is Provider Comments.

    Select one of the following:

        Y          Yes (copy)
        N          No (don't copy)
        !          Copy and flag for display in a BCMA Message Box
        E          Copy and Edit

Copy the Provider Comments into Special Instructions (Yes/No/!/E): e Copy and Edit

SPECIAL INSTRUCTIONS:
This text is Provider Comments.

    EDIT? NO// y YES

==[ WRAP ]==[ INSERT ]=====< SPECIAL INSTRUCTIONS >===== [ <PF1>H=Help ]=====
For Low Magnesium***Magnesium <2.4 give 11gm; Mag <2.2 give 2 gm: mag < 2
give 3 gm; Mag < 1.8 give 2 x 2gm** Then Recheck Magnesium

=====T=====T=====T=====T=====T=====T=====T=====T=====T=====
Would you like to flag the Special Instructions field for display in a BCMA
Message box?

    Select one of the following:

        Y          Yes
        N          No

Flag the Special Instructions (Yes/No):
```



Example: Prompts when “^” is detected in Special Instructions

```
SPECIAL INSTRUCTIONS:
No existing text
Edit? NO// Yes YES

==[ WRAP ]==[ INSERT ]=====< SPECIAL INSTRUCTIONS >===== [ <PF1>H=Help ]=====

for low magnesium *** <2.4 give 1 gm; Mag <2.2gm; Mag <2 give 3gm; Mag
<1.8 give 2 x 2gm**. Then recheck magnesium^          Y          Yes (copy)

<=====T=====T=====T=====T=====T=====T=====T=====T=====T=====

SPECIAL INSTRUCTIONS must not contain embedded uparrow "^".
Press Return to continue editing SPECIAL INSTRUCTIONS...
```

- **“START DATE/TIME:” (Regular and Abbreviated)**

This is the date and time the order is to begin. For Inpatient Medications orders, the Start Date/Time is initially assigned to the CLOSEST ADMINISTRATION TIME, NEXT ADMINISTRATION TIME or NOW (which is the login date/time of the order), depending on the value of the DEFAULT START DATE CALCULATION field in the INPATIENT WARD PARAMETERS file. Start Date/Time may not be entered prior to 7 days from the order’s Login Date. When a start date is being entered or edited, there will be a warning given if the start date is more than seven days in the future.

- **“EXPECTED FIRST DOSE:” (Regular and Abbreviated)**

Inpatient Medications no longer displays an expected first dose for orders containing a schedule with a schedule type of One-time. The system also no longer displays an expected first dose for orders containing a schedule with a schedule type of On-call. The Inpatient Medications application performs the following actions.

- Modifies order entry to allow entry of a Day-of-Week schedule in the following format: days@schedule name. For example, MO-WE-FR@BID or TU@Q6H.
- Translates the schedule into the appropriate administration times. For example, MO-WE-FR@BID is translated to MO-WE-FR@10-22.
- Modifies the expected first dose calculation to accept the new format of schedules. For example, MO-WE-FR@BID or MO@Q6H.
- Accepts the new formatted schedules from CPRS. For example, MO-WE-FR@BID or TU@Q6H.

Translates a schedule received in the new format from CPRS into the appropriate schedule and administration times.

- **“STOP DATE/TIME:” (Regular)**

This is the date and time the order will automatically expire. The system calculates the default Stop Date/Time for order administration based on the STOP TIME FOR ORDER site parameter. For IV orders, the default date shown is the least of (1) the <IV TYPE> GOOD FOR HOW MANY DAYS site parameter (where <IV TYPE> is LVPs, PBs, etc.), (2) the NUMBER OF DAYS FOR IV ORDER field (found in the IV ADDITIVES file) for all additives in this order, (3) the DAY (nD) or DOSE (nL) LIMIT field (found in the PHARMACY ORDERABLE ITEM file) for the orderable item associated with this order or (4) the duration received from CPRS (if applicable). The Site Manager or Application Coordinator can change any fields.

Note that an entry of a stop date greater than 367 days from the start of the date of the order is not allowed.

For the rules for calculating Unit Dose order Stop Date/Time calculation, refer to [Section 18.5.2 Stop Date/Time Calculation](#) in the Inpatient Medications Technical Manual/Security Guide.

- **“PROVIDER:” (Regular and Abbreviated)**

This identifies the provider who authorized the order. Only users who meet all these conditions may be selected at this prompt: holds the Provider security key, is Authorized to

Write Med Orders, does not have an Inactivation Date or an Inactivation Date that has passed, does not have a Termination Date or a Termination Date that has passed, and who is not DISUSER'ed.

Note: Patch PSJ*5*366 added the criteria to check for DISUSER.

- **“SELF MED:”** (Regular and Abbreviated)
Identifies the order as one whose medication is to be given for administration by the patient. This prompt is only shown if the ‘SELF MED’ IN ORDER ENTRY field of the INPATIENT WARD PARAMETERS file is set to On.
- **“NATURE OF ORDER:”** (Regular and Abbreviated)
This is the method the provider used to communicate the order to the user who entered or took action on the order. Nature of Order is defined in CPRS. Written will be the default for new orders entered. When a new order is created due to an edit, the default will be Service Correction. The following table shows some Nature of Order examples.

| Nature of Order | Description | Prompted for Signature in CPRS | Chart Copy Printed? |
|--------------------|--|--------------------------------|---------------------|
| Written | The source of the order is a written doctor’s order | No | No |
| Verbal | A doctor verbally requested the order | Yes | Yes |
| Telephoned | A doctor telephoned the service to request the order | Yes | Yes |
| Service Correction | The service is discontinuing or adding new orders to carry out the intent of an order already received | No | No |
| Duplicate | This applies to orders that are discontinued because they are a duplicate of another order | No | Yes |
| Policy | These are orders that are created as a matter of hospital policy | No | Yes |

The Nature of Order abbreviation will display on the order next to the Provider’s Name. The abbreviations will be in lowercase and enclosed in brackets. Written will display as [w], telephoned as [p], verbal as [v], policy as [i], electronically entered as [e], and service correction as [s]. If the order is electronically signed through the CPRS package AND the CPRS patch OR*3*141 is installed on the user’s system, then [es] will appear next to the Provider’s Name instead of the Nature of Order abbreviation.

Example: New Order Entry

| | | |
|----------------------------|-----------------------|---------------------------|
| Patient Information | Apr 28, 2021@10:01:38 | Page: 1 of 1 |
| PSJPATIENT1,ONE | Ward: GENERAL | A |
| PID: 000-00-0202 | Room-Bed: GENMED-2 | Ht (cm) : _____ (_____) |
| DOB: 05/16/70 (50) | | Wt (kg) : _____ (_____) |

Sex: FEMALE Admitted: 04/23/21
Dx: LUNG CANCER Last transferred: *****
CrCL: <Not Found> (CREAT: Not Found) BSA (m2): _____

Allergies - Verified: LATEX
Non-Verified:

Adverse Reactions:
Inpatient Narrative:
Outpatient Narrative:

Enter ?? for more actions
PU Patient Record Update NO New Order Entry
DA Detailed Allergy/ADR List IN Intervention Menu
VP (View Profile) CM New Clinic Medication Entry
Select Action: Quit// NO New Order Entry

Select DRUG: FLUOROURACIL 50MG
Lookup: VA PRODUCT NAME
FLUOROURACIL 50MG/ML INJ FLUOROURACIL 500MG/10ML INJ AN300
...OK? Yes// (Yes)

******* WARNING *******
FLUOROURACIL is hazardous to handle and dispose. Please take the appropriate handling and disposal precautions.

Press Return to continue:

Now doing allergy checks. Please wait...

Now processing Clinical Reminder Order Checks. Please wait ...

Now Processing Enhanced Order Checks! Please wait...

Available Dosage(s)
1. 50MG/1ML
2. 100MG/2ML

Select from list of Available Dosages or Enter Free Text Dose: 1 50MG/1ML

You entered 50MG/1ML is this correct? Yes// YES

MED ROUTE: // SQ SUBCUTANEOUS SQ

SCHEDULE: TID

1 TID 09-13-17
2 TID 01-02-03-04

CHOOSE 1-2: 1 TID 09-13-17

SCHEDULE TYPE: CONTINUOUS// CONTINUOUS

ADMIN TIMES: 09-13-17//

SPECIAL INSTRUCTIONS:

Edit? NO// YES

==[WRAP]==[INSERT]===== < SPECIAL INSTRUCTIONS [Press <PF1>H for help]====
BELOW.

ADDING SPECIAL INSTRUCTIONS.

<=====T=====T=====T=====T=====T=====T=====T=====T=====T=====

Would you like to flag the Special Instructions field for display in a BCMA Message box?

Select one of the following:

Y Yes
N No

Flag the Special Instructions (Yes/No): YES Yes
START DATE/TIME: APR 28,2021@10:08// APR 28,2021@10:08
STOP DATE/TIME: MAY 12,2021@24:00// MAY 12,2021@24:00
Expected First Dose: APR 28,2021@13:00
PROVIDER: McCOY, BONES //

ACTIVE UNIT DOSE Apr 28, 2021@10:08:18 Page: 1 of 2

PSJPATIENT1,ONE Ward: GENERAL A
PID: 000-00-0202 Room-Bed: GENMED-2 Ht (cm): _____ (_____)
DOB: 05/16/70 (50) Wt (kg): _____ (_____)

- (1) Orderable Item: FLUOROURACIL INJ,SOLN
Instructions:
- (2) Dosage Ordered: 50MG/1ML
Duration: (3) Start: 04/28/2021 10:08
- (4) Med Route: SUBCUTANEOUS (5) Stop: 05/12/2021 24:00
- (6) Schedule Type: CONTINUOUS
- (8) Schedule: TID
- (9) Admin Times: 09-13-17
- (10) Provider: McCOY, BONES
- (11) Special Instructions!: (see below)
BELOW.

ADDING SPECIAL INSTRUCTIONS.

+ Enter ?? for more actions
ED Edit AC ACCEPT
Select Item(s): Next Screen// AC ACCEPT

NATURE OF ORDER: WRITTEN// W

...transcribing this non-verified order....

NON-VERIFIED UNIT DOSE Apr 28, 2021@10:57:27 Page: 1 of 2

PSJPATIENT1,ONE Ward: GENERAL A
PID: 000-00-0202 Room-Bed: GENMED-2 Ht (cm): _____ (_____)
DOB: 05/16/70 (50) Wt (kg): _____ (_____)

- * (1) Orderable Item: FLUOROURACIL INJ,SOLN
Instructions:
- * (2) Dosage Ordered: 50MG/1ML
Duration: (3) Start: 04/28/2021 13:00
- * (4) Med Route: SUBCUTANEOUS (5) Stop: 05/03/2021 22:00
- (6) Schedule Type: CONTINUOUS
- * (8) Schedule: TID
- (9) Admin Times: 09-13-17
- * (10) Provider: McCOY, BONES [w]
- (11) Special Instructions!: (see below)
Adding Special Instructions.

(12) Dispense Drug U/D Inactive Date

+ Enter ?? for more actions
DC Discontinue ED Edit AL Activity Logs
HD (Hold) RN (Renew)
FL Flag VF Verify
Select Item(s): Next Screen// VF Verify

...a few moments, please....

Pre-Exchange DOSES:

ORDER VERIFIED.

Type <Enter> to continue or '^' to exit:



Note: Bolded warning text above may appear for medications that are marked as Hazardous to Handle and/or Hazardous to Dispose in the National Drug files.

IV

For IV order entry, the nurse must bypass the “Select DRUG:” prompt (by pressing <Enter>) and then choosing the IV Type at the “Select IV TYPE prompt. The following are the prompts that the nurse can expect to encounter while entering a new IV order for the patient.



- **“Select IV TYPE:”**

IV types are admixture, piggyback, hyperal, syringe, and chemotherapy. An admixture is a Large Volume Parenteral (LVP) solution intended for continuous parenteral infusion. A piggyback is a small volume parenteral solution used for intermittent infusion. Hyperalimentation (hyperal) is long-term feeding of a protein-carbohydrate solution. A syringe IV type order uses a syringe rather than a bottle or a bag. Chemotherapy is the treatment and prevention of cancer with chemical agents.

When an order is received from CPRS, Inpatient Medications will accept and send updates to IV Types from CPRS. When an IV type of Continuous is received, Inpatient Medications defaults to an IV type of Admixture. However, when an IV type of Intermittent is received, Inpatient Medications defaults to an IV type of piggyback.

- **“Select ADDITIVE:”**

There can be any number of additives for an order, including zero. An additive or additive synonym can be entered. If the Information Resources Management Service (IRMS) Chief/Site Manager or Application Coordinator has defined it in the IV ADDITIVES file, the nurse may enter a quick code for an additive. The quick code allows the user to pre-define certain fields, thus speeding up the order entry process. The **entire** quick code name must be entered to receive all pre-defined fields in the order.



When an additive is chosen, if an active drug text entry for the Dispense Drug and/or Orderable Item linked to this additive exists, then the prompt, “Restriction/Guideline(s) exist. Display?:” will be displayed along with the corresponding defaults. The drug text indicator will be <DIN> and will be displayed on the right side of the IV Type on the same line. This indicator will be highlighted.

If the Dispense Drug tied to the Additive or the Orderable Item has a non-formulary status, this status will be displayed on the screen as “*N/F*” beside the Additive or Orderable Item.

- **“BOTTLE:”**

The bottle number is used to specify in which the additive will be included for the IV order. If this field is blank, it means that the additive will be included in all bottles.

A pending order from CPRS can have an additive bottle value such as “1” (1 Bag/Day), blank (All bags), or “See Comments” (which bottle number(s) to place the additive in, is entered in the Provider Comments). During the finishing process, the user can enter/edit a specific value for the bottle number(s). If the bottle number for an additive contains “See Comments”, the user must replace it with either the specific bottle number(s) or enter an “@” to remove the “See Comments” to indicate that the additive will be included in all bottles.

- **“Select SOLUTION:”**

There can be any number of solutions in an order, depending on the type. It is even possible to require zero solutions when an additive is pre-mixed with a solution. If no solutions are chosen, the system will display a warning message, in case it is an oversight, and gives the opportunity to add one. The nurse may enter an IV solution or IV solution synonym.

When a solution is chosen, if an active drug text entry for the Dispense Drug and/or Orderable Item linked to this solution exists, then the prompt, “Restriction/Guideline(s) exist. Display?:” will be displayed along with the corresponding defaults. The drug text indicator will be <DIN> and will be displayed on the right side of the IV Type on the same line. This indicator will be highlighted.

If the Dispense Drug tied to the Solution or the Orderable Item has a non-formulary status, this status will be displayed on the screen as “*N/F*” beside the Solution or Orderable Item.

- **“INFUSION RATE:”**

The infusion rate is the rate at which the IV is to be administered. This value, in conjunction with the total volume of the hyperal or the admixture type, is used to determine the time covered by one bag; hence, the system can predict the bags needed during a specified time of coverage. This field is free text for piggybacks. For admixtures, a number that will represent the infusion rate must be entered. The nurse can also specify the # of bags per day that will be needed. This will automatically populate the NUMBER OF LABELS PER DAY (NLPD) field.

Example: 125 = 125 ml/hr (IV system will calculate bags needed per day), 125@2 = 125 ml/hr with 2 labels per day, Titrate@1 = Titrate with 1 label per day. The format of this field is either a number only or free text only, or [FREE TEXT@NUMBER OF LABELS PER DAY.]

Intermittent IV Orders

The schedule and administration times for intermittent orders are used to determine the number of daily scheduled labels. The use of the @ symbol for intermittent IV orders is not allowed.

Continuous IV Orders

A 2-digit numeric field is added to the NON-VERIFIED ORDERS file (#53.1) and to the IV (#100) multiple of the PHARMACY PATIENT file (#55).

- Printed IV labels do not display the NLPD field regardless of value.
- The NLPD field, if populated, determines the number of labels that will print when the *Scheduled Labels (IV)* [PSJI LBLs] option is run for continuous IV orders.
- The NLPD field is not sent to BCMA.
- When an Infusion Rate is received from CPRS in the format Rate@Labels, the “@” symbol is used to separate the Infusion Rate into its respective INFUSION RATE and NLPD component fields.
- The number of labels per day is always shown next to the infusion rate, when the infusion rate is free text or the number of labels has been entered by the user, or when the number of labels has been received from CPRS. The INFUSION RATE field must be selected when editing. There is no field number reference for NLPD.
- Edits to the NLPD field never create a new order.
- The NLPD field is not populated when the number of labels is system calculated based on a numeric infusion rate.
- The following rules apply to the use of the “@” symbol in the Infusion Rate: The number entered after the “@” symbol populates the NLPD field. Anything entered before the “@” symbol displays in the INFUSION RATE field. The “@” symbol will not be visible in the display of the Infusion Rate.

Example:

```
INFUSION RATE: 50 ml/hr// Titrate@0  
NUMBER OF LABELS PER DAY: 0//
```

When the infusion rate is entered as free text, a minimum of two characters is required for the order level validation for Infusion rate for Inpatient Medications or CPRS orders.

Example:

```
INFUSION RATE: 50 ml/hr// INFUSE SLOWLY
```

When the infusion rate is numeric, the NLPD is optional. When entering free text in THE INFUSION RATE field, the NLPD is required with no default. Numeric entry of 0-99 is allowed; all other entries are invalid.

- A new order is not created when a change is made to the NLPD field.

When the INFUSION RATE field is selected, an NLPD prompt displays.

Example:

```
NUMBER OF LABELS PER DAY: //
```

An abbreviation entered in the INFUSION RATE field is replaced with expanded text, if the abbreviation has been defined in the INFUSION INSTRUCTIONS file (#53.47.)

Example:

```
INFUSION RATE: 50 ml/hr// T           ... Now Expanding Text
Input expanded to Titrate
Press Return to Continue
```

A minimum of 2 characters and a maximum of 30 characters may be entered into the INFUSION RATE field. The special character “^” is not allowed. A warning message displays if the free text entry contains less than the minimum requirement of 2 characters or more than the maximum requirement of 30 characters.

Example: Warning Message

```
INFUSION RATE: 50 ml/hr// P
Free text entries must contain a minimum of 2 characters and a maximum of 30 characters.
INFUSION RATE: 50 ml/hr//
```

The INFUSION INSTRUCTIONS file (#53.47) allows the user to add to or edit the abbreviations or expanded text by storing the infusion rate abbreviations, up to 9 characters, and the associated expanded text, a minimum of 2 characters and a maximum of 30 characters.

Help Text is provided for the infusion rate when ? or ?? is entered.

When an order is received from CPRS, Inpatient Medications accepts infusion rates in both ml/hr and as “infuse over time.” In the Order View screen, for orders with an IV Type considered Intermittent, the infusion rate will display as “infuse over” followed by the time. For example, infuse over 30 minutes.



- **“MED ROUTE:”** (Regular and Abbreviated)

Inpatient Medications uses the medication route provided by CPRS as the default when finishing an IV order, and transmits any updates to an order’s medication route to CPRS.

Inpatient Medications determines the default medication route for a new order entered through Inpatient Medications, and sends the full Medication Route name for display on the BCMA VDL.

This is the administration route to be used for the order. If a Medication Route is identified for the selected Orderable Item it will be used as the default for the order. Inpatient Medications applies the Medication Route provided by CPRS as the default when finishing an IV order.

- If no medication route is specified, Inpatient Medications will use the Medication Route provided by CPRS as the default when finishing an IV order.
- If updates are made to the medication route, Inpatient Medications will transmit any updates to an order's Medication Route to CPRS.
- Inpatient Medications determines the default Medication Route for a new order.
- Inpatient Medications sends the full Medication Route name for display on the BCMA VDL.

PSJ*5*366 added a medication route “short list” and “long list” for selection of a medication route during the order finishing and order entry process. The short list includes only the routes associated with the dosage form for the selected medication in the PHARMACY ORDERABLE ITEM file (#50.7). When entering an order, entering “?” at the Medication Route prompt will display the short list of routes. Entering “??” at the Medication Route prompt will display the long list of routes. The system will allow either partial matches for routes that are found in the short list, or exact full-text matches or abbreviation matches for other routes in the MEDICATION ROUTES file (#51.2).

Prior to PSJ*5*366 if no default med route was defined, the system set the med route to PO or ORAL. This patch removes that automatic PO or ORAL default.

If a route entered does not match any of the defined medication routes, then “??” displays.



- **“SCHEDULE:”**

This prompt occurs on piggyback and intermittent syringeorders. Schedules must be selected from the ADMINISTRATION SCHEDULE file, with the following exceptions:

- Schedule containing PRN: (Ex. TID PC PRN). If the schedule contains PRN, the base schedule must be in the ADMINISTRATION SCHEDULE file.
- Day of week schedules (Ex. MO-FR or MO-FR@0900)
- Admin time only schedules (Ex. 09-13)

- **“ADMINISTRATION TIME:”**

This is free text. The pharmacist might want to enter the times of dose administration using military time such as 03-09-15-21. Administration times must be entered in a two or four digit format. If multiple administration times are needed, they must be separated by a dash (e.g., 09-13 or 0900-1300). This field must be left blank for odd schedules, (e.g., Q16H).

- **“OTHER PRINT INFO:”**

The system allows a word processing entry of unlimited free text. For new order entry, when Other Print Info is added, the nurse is prompted whether to flag this field for display in a BCMA message box. When finishing orders placed through CPRS, where the Provider Comments are not too long to be placed in this field, the nurse is given the option to copy the comments into

this field. Should the nurse choose to copy and flag these comments for display in a BCMA message box on the VDL an exclamation mark “!” will appear in the order next to this field.

The following menu choices regarding copying of provider comments are available:

- Y Yes (copy) – This will copy Provider Comments into the Other Print Info field.
- N No (don’t copy) – This will bypass copying Provider Comments.
- ! Copy and flag for display in a BCMA Message Box – This will copy Provider Comments into the Other Print Info field and flag for display in a BCMA Message Box.
- E Copy and Edit – This will copy Provider Comments into the Other Print Info field and open in a word processing window for editing.

The system enables the nurse to review the provider comments received from CPRS during the finishing of an IV order. A maximum of 60 characters of text is printed on the IV label from Other Print Info. When Other Print Info exceeds 60 characters, the message: “Instructions too long. See Order View or BCMA for full text.” appears on the IV label.

Before the nurse enters Other Print Info information, the message: “WARNING, IF OTHER PRINT INFO exceeds one line of 60 characters, ‘Instructions too long. See Order View or BCMA for full text.’ prints on the IV label instead of the full text.”

After the nurse enters Other Print Info information, if the entry exceeds one line of 60 characters, the message: “WARNING OTHER PRINT INFO exceeds one line of 60 characters, ‘Instructions too long. See Order View or BCMA for full text.’ prints on the IV label instead of the full text.”

Example: Other Print Info

```
OTHER PRINT INFO
This text is Other Print Info
Would you like to flag the Other Print Info field for display in a BCMA
Message box?

      Select one of the following:
          Y          Yes
          N          No

Flag the Other Print Info (Yes/No): y  Yes
```



- **“START DATE / TIME:”**

The system calculates the default Start Date/Time for order administration based on the DEFAULT START DATE CALCULATION field in the INPATIENT WARD PARAMETERS file. This field allows the site to use the NEXT or CLOSEST administration or delivery time, or

NOW, which is the order's login date/time as the default Start Date. When NOW is selected for this parameter, it will always be the default Start Date/Time for IVs. This may be overridden by entering the desired date/time at the prompt.

When NEXT or CLOSEST is used in this parameter and the IV is a continuous-type IV order, the default answer for this prompt is based on the delivery times for the IV room specified for that order entry session. For intermittent type IV orders, if the order has administration times, the start date/time will be the NEXT or CLOSEST administration time depending on the parameter. If the intermittent type IV order does not have administration times, the start date/time will round up or down to the closest hour. The Site Manager or Application Coordinator can change this field.

The Pharmacy User is warned if they attempt to enter a start date more than 7 days in the future. When a start date is being entered or edited, there will be a warning given if the start date is more than seven days in the future.

- **“EXPECTED FIRST DOSE:” (Regular and Abbreviated)**

Inpatient Medications no longer displays an expected first dose for orders containing a schedule with a schedule type of One-time. The system also no longer display an expected first dose for orders containing a schedule with a schedule type of On-call. The Inpatient Medications application performs the following actions.

- Modifies order entry to allow entry of a Day-of-Week schedule in the following format: days@schedule name. For example, MO-WE-FR@BID or TU@Q6H.
- Translates the schedule into the appropriate administration times. For example, MO-WE-FR@BID is translated to MO-WE-FR@10-22.
- Modifies the expected first dose calculation to accept the new format of schedules. For example, MO-WE-FR@BID or MO@Q6H.
- Accepts the new formatted schedules from CPRS. For example, MO-WE-FR@BID or TU@Q6H.
- Translates a schedule received in the new format from CPRS into the appropriate schedule and administration times.

- **“STOP DATE / TIME:”**

The system calculates the default Stop DateTime for order administration based on the STOP TIME FOR ORDER site parameter. For IV orders, the default date shown is the least of (1) the <IV TYPEGOOD FOR HOW MANY DAYS site parameter (where <IV TYPE> is LVPs, PBs, etc.), (2) the NUMBER OF DAYS FOR IV ORDER field (found in the IV ADDITIVES file) for all additives in this order, (3) the DAY (nD) or DOSE (nL) LIMIT field (found in the PHARMACY ORDERABLE ITEM file) for the orderable item associated with this order or (4) the duration received from CPRS (if applicable). The Site Manager or Application Coordinator can change these fields.

Note that an entry of a stop date greater than 367 days from the start of the date of the order is not allowed.

For the rules for calculating Unit Dose order Stop Date/Time calculation, refer to [Section 18.5.2 Stop Date/Time Calculation](#) in the Inpatient Medications Technical Manual/Security Guide.

- **“NATURE OF ORDER:”**

This is the method the provider used to communicate the order to the user who entered or took action on the order. Nature of Order is defined in CPRS “Written” will be the default for new orders entered. When a new order is created due to an edit, the default will be Service Correction. The following table shows some Nature of Order examples.

| Nature of Order | Description | Prompted for Signature in CPRS? | Chart Copy Printed? |
|--------------------|--|---------------------------------|---------------------|
| Written | The source of the order is a written doctor’s order | No | No |
| Verbal | A doctor verbally requested the order | Yes | Yes |
| Telephoned | A doctor telephoned the service to request the order | Yes | Yes |
| Service Correction | The service is discontinuing or adding new orders to carry out the intent of an order already received | No | No |
| Duplicate | This applies to orders that are discontinued because they are a duplicate of another order | No | Yes |
| Policy | These are orders that are created as a matter of hospital policy | No | Yes |

The Nature of Order abbreviation will display on the order next to the Provider’s Name. The abbreviations will be in lowercase and enclosed in brackets. Written will display as [w], telephoned as [p], verbal as [v], policy as [i], electronically entered as [e], and service correction as [s]. If the order is electronically signed through the CPRS package AND the CPRS patch OR*3*141 is installed on the user’s system, then [es] will appear next to the Provider’s Name instead of the Nature of Order abbreviation.

- **“Select CLINIC LOCATION:”**

This prompt is only displayed for Outpatient IV orders entered through the Inpatient Medications package. The user will enter the hospital location name when prompted.



Note: While entering an order, the nurse can quickly delete the order by typing a caret (^) at any one of the prompts listed above except at the “STOP DATE/TIME:” prompt. Once the user has passed this prompt, if the order still needs to be deleted, a caret (^) can be entered at the “Is this O.K.?” prompt.

Example: New Order Entry

```
Select ADDITIVE: MULT
  1  MULTIVITAMIN INJ

  2  MULTIVITAMINS

CHOOSE 1-2: 2  MULTIVITAMINS

(The units of strength for this additive are in ML)
Strength: 22 ML
Select ADDITIVE:
Select SOLUTION: 0.9
  1  0.9% SODIUM CHLORIDE      100 ML
      BCMA
  2  0.9% SODIUM CHLORIDE      50 ML
      BCMA
CHOOSE 1-2: 1  0.9% SODIUM CHLORIDE      100 ML
      BCMA

Now doing allergy checks.Please wait...

Now processing Clinical Reminder Order Checks.Please wait ...

Now Processing Enhanced Order Checks!Please wait...

=====
This patient is receiving the following orders(s) that have a SIGNIFICANT Drug
Interaction with MULTIVITAMINS 2 ML:

WARFARIN INJ          C  02/22  03/01  N
Give: 5MG/1VIAL PO 3ID

*** REFER TO MONOGRAPH FOR SIGNIFICANT INTERACTION CLINICAL EFFECTS.
=====

Display Professional Interaction Monograph(s)? NO// YES
DEVICE: HOME//COMPUTER ROOM

Professional Monograph
Drug Interaction with WARFARIN and MULTIVITAMINS

This information is generalized and not intended as specific medical
advice. Consult your healthcare professional before taking or
discontinuing any drug or commencing any course of treatment.

MONOGRAPH TITLE: Selected Anticoagulants/Alpha Tocopheryl

SEVERITY LEVEL: 2-Severe Interaction: Action is required to reduce the
risk of severe adverse interaction.

MECHANISM OF ACTION: Unknown.

CLINICAL EFFECTS: Vitamin E may increase the pharmacologic effects of
anticoagulants.

PREDISPOSING FACTORS: None determined.

PATIENT MANAGEMENT: Coadministration of vitamin E and anticoagulants

Press Return to continue...

should be avoided. If both drugs are administered, monitor
hypoprothrombinemic response to warfarin and adjust the dose of the
anticoagulants as indicated. The time of highest risk for a coumarin-type
drug interaction is when the precipitant drug is initiated or
discontinued. Contact the prescriber before initiating, altering the
```

dose or discontinuing either drug.

DISCUSSION: Vitamin E doses of 800 International Units/day and more have been reported to increase the hypoprothrombinemic effect of warfarin: while doses of 42 International units/day of vitamin E for 30 days have increased the hypoprothrombinemic effect of dicumarol. Agenerase brand of amprenavir capsules and oral solution contain a significant amount of vitamin E. Each 150 mg capsule contains 109 International Units vitamin E, with a total of 1744 International Units of vitamin E in the recommended daily adult dose. Each mL of oral solution contains 46 International Units of vitamin E.

REFERENCES:

1.Corrigan JJ Jr, Marcus FI. Coagulopathy associated with vitamin E ingestion. JAMA 1974 Dec 2;230(9):1300-1.

Press Return to continue...

2.Schrogie JJ. Letter: Coagulopathy and fat-soluble vitamins. JAMA 1976 Apr 7;232(1):19.

3.Corrigan JJ Jr, Ulfers LL. Effect of vitamin E on prothrombin levels in warfarin-induced vitamin K deficiency. Am J Clin Nutr 1981 Sep; 34(9):1701-5.

4.Anonymous. Vitamin K, vitamin E and the coumarin drugs. Nutr Rev 1982 Jun; 40(6):180-2.

5.Agenerase (amprenavir) Capsules US prescribing information. GlaxoSmithKline February, 2004.

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Do you want to Intervene with MULTIVITAMINS 2 ML? NO//

INFUSION RATE: 125 INFUSE OF 125 MINUTES

MED ROUTE: IV//

SCHEDULE: QID

ADMINISTRATION TIMES: 09-13-17-21//

REMARKS:

OTHER PRINT INFO:

START DATE/TIME: 02/26/2010@18:51// (FEB 26, 2010@18:51)

STOP DATE/TIME: 03/27/2010@23:59

PROVIDER: PROVIDER,ONE

1 PROVIDER,ONE NEW YORK OP 10BA1/ADP Scholar Extra
ordinaire

2 PROVIDER,ONEHUNDRED TZB 10BA1/ADP Scholar Extraord
ordinaire

3 PROVIDER,ONEHUNDREDFIVE 10BA1/ADP Scholar Extraor
dordinaire

4 PROVIDER,ONEHUNDREDNINETYONE BM 10BA1/ADP Schol
ar Extraordinaire

5 PROVIDER,ONEHUNDREDSIXTYSEVEN 10BA1/ADP Scholar E
xtraordinaire

Press <RETURN> to see more, '^' to exit this list, OR

CHOOSE 1-5: 1 PROVIDER,ONE NEW YORK OP 10BA1/ADP Scholar E

xtraordinaire

Orderable Item: MULTIVITAMINS INJ

Give: IV QID

100716

[1]0808 7A GEN MED 02/25/10

EIGHT,INPATIENT 726-B

MULTIVITAMINS 2 ML

0.9% SODIUM CHLORIDE 100 ML

INFUSE OVER 125 MINUTES

QID

09-13-17-21

1[1]

```

Start date; 02/25/2010 18:51   Stop date: 03/27/2010 23:59

Expected First Dose:  FEB 25,2010@21:00

Is this O.K.:  YES//YES
NATURE OF ORDER: WRITTEN//  W
...transcribing this non-verified order....
NON-VERIFIED IV              Feb 25, 2010@18:54:08           Page:    1 of    2
EIGHT, INPATIENT              Ward: 7A GEN
PID: 666-00-0808              Room-Bed: 726-B           Ht (cm):  _____ (_____)
DOB: 01/01/50 (61)           Wt (kg):  _____ (_____)
-----
* (1)  Additives:              Type: PIGGYBACK
      MULTIVITAMINS 2 ML
(2)  Solutions:
      0.9% SODIUM CHLORIDE 100 ML
      Duration:                (4) Start: 02/26/2010  18:51
(3)  Infusion Rate: INFUSE OVER 125 MINUTES
* (5)  Med Route: IV              (6) Stop: 03/27/2010  23:59
* (7)  Schedule: QID              Last Fill: *****
(8)  Admin Times: 09-13-17-21    Quantify: 0
* (9)  Provider: PROVIDER, ONE [w] Cum. Doses:
* (10) Orderable item: MULTIVITAMINS INJ
      Instructions:
(11)  Other Print:

+-----Enter ?? for more actions-----
DC  Discontinue      RN  (Renew)          VF  Verify
HD  (Hold)           OC  (On Call)        FL  Flag
ED  Edit             AL  Activity Logs
Select Item(s): Next Screen//

```

After entering the data for the order, the system will prompt the nurse to confirm that the order is correct. The IV module contains an integrity checker to ensure the necessary fields are answered for each type of order. The nurse must edit the order to make corrections if all of these fields are not answered correctly. If the order contains no errors, but has a warning, the user will be allowed to proceed.

PADE Stock and Ward Stock Items

The VistA Pharmacy Inpatient Order Entry Patient Profile screen contains information on whether or not a drug is a PADE stock item.

New display functions include the following:

- PD = PADE stock item (Medication in the PADE inventory file)
- WP = Ward Stock and PADE stock item

Example: Patient Profile Inpatient Order Entry screen display

```

Inpatient Order Entry           Mar 03, 2015@13:38:02           Page: 1 of 1
BCMAPATIENT, FOUR                Ward: 7A GEN                A
  PID: 000-00-0001                Room-Bed:                   Ht (cm) : _____ (_____)
  DOB: 12/25/66 (48)              Attn: Psj,Test              Wt (kg) : _____ (_____)
  Sex: FEMALE                      TrSp: Medical Observat     Admitted: 01/12/09
  Dx: COUGH                          Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

- - - - - A C T I V E - - - - -
1  ALPRAZOLAM TAB                  C 03/02 03/09 A PD
   Give: 0.25MG PO BID
2  AMPICILLIN CAP,ORAL            C 03/03 03/09 A WP
   Give: 250MG BY MOUTH TID
- - - - - P E N D I N G - - - - -
3  CAPTOPRIL TAB                  ? ***** ***** P
   Give: 75MG PO TID
4  LEVOTHYROXINE TAB              ? ***** ***** P WS
   Give: 0.025MG BY MOUTH *Q8H

Enter ?? for more actions
PI Patient Information              NO New Order Entry
PU Patient Record Update           CM New Clinic Order Entry
SO Select Order
Select Action: Quit//
  
```

4.5.3 Detailed Allergy/ADR List

The Detailed Allergy/ADR List action displays a detailed listing of the selected item from the patient's Allergy/ADR List. Entry to the *Edit Allergy/ADR Data* option is provided with this list also.

- **Enter/Edit Allergy/ADR Data**
Provides access to the Adverse Reaction Tracking (ART) package to allow entry and/or edit of allergy adverse reaction data for the patient. See the Allergy package documentation for more information on Allergy/ADR processing.
- **Select Allergy**
Allows the user to view a specific allergy. Intervention Menu



The Intervention Menu action allows entry of new interventions and existing interventions to be edited, deleted, viewed, or printed. Each kind of intervention will be discussed and an example will follow.



Note: Interventions can also be dynamically created in response to Order Checks for critical drug-drug interactions and allergy/ADRs. Refer to Section 4.9 Order Checks.

If a change is made to an intervention associated to an inpatient order made in response to critical drug-drug and/or allergy/ADR, the changes are reflected and displayed whenever interventions display.

New interventions entered via the Intervention Menu are at the patient level and are not associated with a particular order. Consequently, new entries made through this menu are not reflected in the OCI listing, the BCMA Display Order detail report, and do not cause highlighting in BCMA.

- **New:** This option is used to add an entry into the APSP INTERVENTION file.

Example: New Intervention

```

Patient Information      Feb 11, 2011@11:17:44      Page: 1 of 1
BCMAPATIENT,FIVE      Ward: 3 NORTH
  PID: 000-00-5555      Room-Bed: 1-2              Ht (cm): _____ (_____)
  DOB: 09/16/45 (65)    Att: Psj,Test              Wt (kg): _____ (_____)
  Sex: MALE              TrSp: Medical Observati    Admitted: 12/05/08
  Dx: FLUID IN LUNGS      Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

Allergies/Reactions: NKA
Inpatient Narrative:
Outpatient Narrative:

Enter ?? for more actions
PU Patient Record Update      NO New Order Entry
DA Detailed Allergy/ADR List    IN Intervention Menu
VP View Profile                CM New Clinic Medication Entry
Select Action: View Profile// IN Intervention Menu

--- Intervention Menu ---

DI Delete Pharmacy Intervention      PO Print Pharmacy Intervention
ED Edit Pharmacy Intervention        VP View Pharmacy Intervention
NE Enter Pharmacy Intervention

Select Item(s): NE Enter Pharmacy Intervention
Select APSP INTERVENTION INTERVENTION DATE: T FEB 11, 2011
Are you adding 'FEB 11, 2011' as a new APSP INTERVENTION (the 526TH)? No// Y
(Yes)
APSP INTERVENTION PATIENT: PRETST,PATTHREE      8-1-61      000009677
NO NSC VETERAN
Combat Vet Status: ELIGIBLE      End Date: 02/12/2015

APSP INTERVENTION DRUG: CIMETIDINE 200MG TAB      GA301
PROVIDER: PHARMACIST,LINDA J      LP
INSTITUTED BY: PHARMACY// PHARMACY
INTERVENTION: ?
Answer with APSP INTERVENTION TYPE, or NUMBER

```

```

Do you want the entire 22-Entry APSP INTERVENTION TYPE List? N (No)
INTERVENTION: ALLERGY
RECOMMENDATION: NO CHANGE
WAS PROVIDER CONTACTED: NO NO
RECOMMENDATION ACCEPTED: Y YES
FINANCIAL COST:
REASON FOR INTERVENTION:
  No existing text
  Edit? NO//
ACTION TAKEN:
  No existing text
  Edit? NO//
CLINICAL IMPACT:
  No existing text
  Edit? NO//
FINANCIAL IMPACT:
  No existing text
  Edit? NO//
Select APSP INTERVENTION INTERVENTION DATE:

```

- **Edit:** This option is used to edit an existing entry in the APSP INTERVENTION file.

Example: Edit an Intervention

```

Patient Information      Feb 11, 2011@11:52:02      Page: 1 of 1
PRETST,PATTHREE        Ward:
  PID: 000-00-9677      Room-Bed:                Ht (cm): _____ (_____)
  DOB: 08/01/61 (49)    Wt (kg): _____ (_____)
  Sex: MALE              Admitted:
  Dx:                    Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

Allergies/Reactions: NKA
Inpatient Narrative:
Outpatient Narrative:

Enter ?? for more actions
PU Patient Record Update      NO New Order Entry
DA Detailed Allergy/ADR List   IN Intervention Menu
VP View Profile                CM New Clinic Medication Entry
Select Action: View Profile// IN Intervention Menu

--- Intervention Menu ---

DI Delete Pharmacy Intervention      PO Print Pharmacy Intervention
ED Edit Pharmacy Intervention         VP View Pharmacy Intervention
NE Enter Pharmacy Intervention

Select Item(s): ED Edit Pharmacy Intervention

Select INTERVENTION:T SEP 22, 2000      PRETST,PATTHREE      WARFARIN 10MG
INTERVENTION DATE: SEP 22,2000// <Enter>
PATIENT: PRETST,PATTHREE// <Enter>
PROVIDER: PSJPROVIDER,ONE // <Enter>
PHARMACIST: PSJNURSE,ONE // <Enter>
DRUG: WARFARIN 10MG// <Enter>
INSTITUTED BY: PHARMACY// <Enter>
INTERVENTION: ALLERGY// <Enter>
OTHER FOR INTERVENTION:
  1>
RECOMMENDATION: NO CHANGE// <Enter>
OTHER FOR RECOMMENDATION:
  1>
WAS PROVIDER CONTACTED: NO// <Enter>
PROVIDER CONTACTED:
RECOMMENDATION ACCEPTED: YES// <Enter>

```

```

AGREE WITH PROVIDER: <Enter>
FINANCIAL COST:
REASON FOR INTERVENTION:
  No existing text
Edit? NO//
ACTION TAKEN:
  No existing text
Edit? NO//
CLINICAL IMPACT:
  No existing text
Edit? NO//
FINANCIAL IMPACT:
  No existing text
Edit? NO//

```

- **Delete:** This option is used to delete an entry from the APSP INTERVENTION file. The nurse may only delete an entry that was entered on the same day.

Example: Delete an Intervention

```

Patient Information      Feb 11, 2011@11:52:02      Page: 1 of 1
PRETST,PATTHREE        Ward:
  PID: 000-00-9677      Room-Bed:                Ht (cm): _____ (_____)
  DOB: 08/01/61 (49)    Wt (kg): _____ (_____)
  Sex: MALE              Admitted:
  Dx:                    Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

Allergies/Reactions: NKA
Inpatient Narrative:
Outpatient Narrative:

      Enter ?? for more actions
PU Patient Record Update      NO New Order Entry
DA Detailed Allergy/ADR List  IN Intervention Menu
VP View Profile                CM New Clinic Medication Entry
Select Action: View Profile// IN Intervention Menu

      --- Intervention Menu ---

DI Delete Pharmacy Intervention      PO Print Pharmacy Intervention
ED Edit Pharmacy Intervention         VP View Pharmacy Intervention
NE Enter Pharmacy Intervention

Select Item(s): de Delete Pharmacy Intervention
You may only delete entries entered on the current day.

Select APSP INTERVENTION INTERVENTION DATE: t FEB 11, 2011
  1 2-11-2011      PRETST,PATTHREE      CIMETIDINE 200MG TAB
  2 2-11-2011      PRETST,PATTHREE      CIMETIDINE 200MG TAB
CHOOSE 1-2: 1 2-11-2011      PRETST,PATTHREE      CIMETIDINE 200MG TAB
SURE YOU WANT TO DELETE THE ENTIRE ENTRY? y YES
Select APSP INTERVENTION INTERVENTION DATE:

```

- **View:** This option is used to display Pharmacy Interventions in a captioned format.

Example: View an Intervention

```

Patient Information      Feb 11, 2011@11:52:02      Page: 1 of 1
PRETST,PATTHREE        Ward:
  PID: 000-00-9677      Room-Bed:                Ht (cm): _____ (_____)
  DOB: 08/01/61 (49)    Wt (kg): _____ (_____)
  Sex: MALE              Admitted:
  Dx:                    Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

```



```

ED   Edit Pharmacy Intervention      VP   View Pharmacy Intervention
NE   Enter Pharmacy Intervention

Select Item(s): PO   Print Pharmacy Intervention
* Previous selection: INTERVENTION DATE from Jun 1,2010
START WITH INTERVENTION DATE: Jun 1,2010// T-1 (MAR 15, 2011)
GO TO INTERVENTION DATE: LAST// T (MAR 16, 2011)
DEVICE: home;80;9999  COMPUTER ROOM
PHARMACY INTERVENTION LISTING                MAR 16,2011  12:37  PAGE 1
-----

INTERVENTION: CRITICAL DRUG INTERACTION

INTERVENTION DATE: MAR 16,2011      PATIENT:  BCMA,EIGHTEEN-PATIENT
PROVIDER: PROVIDER,ONE              PHARMACIST:  PHARMACIST,TWO
DRUG: INDINAVIR SULFATE 400MG CAP   INSTITUTED BY:  PHARMACY
RECOMMENDATION: NO CHANGE
WAS PROVIDER CONTACTED:             RECOMMENDATION ACCEPTED:
PROVIDER CONTACTED:

INTERVENTION DATE: MAR 16,2011      PATIENT:  BCMA,EIGHTEEN-PATIENT
PROVIDER: PROVIDER,ONE              PHARMACIST:  PHARMACIST,TWO
DRUG: SIMVASTATIN 20MG TAB          INSTITUTED BY:  PHARMACY
RECOMMENDATION: NO CHANGE
WAS PROVIDER CONTACTED:             RECOMMENDATION ACCEPTED:
PROVIDER CONTACTED:

SUBTOTAL                                0
SUBCOUNT                               2
-----
TOTAL                                    0
COUNT                                  2

Patient Information      Mar 16, 2011@12:37:57      Page:  1 of  1
BCMA,EIGHTEEN-PATIENT  Ward: 7A GEN                      A
  PID: 666-33-0018      Room-Bed:                Ht (cm): 175.26 (12/15/08)
  DOB: 04/07/35 (75)                Wt (kg): 100.00 (12/15/08)
  Sex: FEMALE                      Admitted: 01/31/02
  Dx: UPSET                      Last transferred: 06/04/10
  CrCL: 0.8(est.) (CREAT: 122mg/dL 8/26/96)  BSA (m2): 2.15

-----
Allergies - Verified: AMPICILLIN, PENICILLIN, STRAWBERRIES
Non-Verified:

  Adverse Reactions:
  Inpatient Narrative:
  Outpatient Narrative:

-----Enter ?? for more actions-----
PU Patient Record Update      NO New Order Entry
DA Detailed Allergy/ADR List  IN Intervention Menu
VP View Profile                CM New Clinic Medication Entry
Select Action: View Profile//

```

4.5.4 View Profile

The View Profile action allows selection of a Long, Short, or NO profile for the patient. The profile displayed in the *Inpatient Order Entry* and *Non-Verified/Pending Orders* options will include IV and Unit Dose orders. The long profile shows all orders, including discontinued and expired orders. The short profile displays recently discontinued or expired orders based on parameter values found in the System parameter and inpatient ward parameter files.

Example: Profile View

```

Inpatient Order Entry      Oct 19, 2010@16:41:35      Page:  1 of  3
PSJPATIENT,ELEVEN        Ward: 7AS

```

```

PID: 666-00-2921          Room-Bed:          Ht (cm): _____ (_____)
DOB: 08/09/54 (56)       Wt (kg): _____ (_____)
Sex: MALE                Admitted: 06/09/10
Dx: RESPIRATORY DISTRESS Last transferred: *****
CrCL: <Not Found> (CREAT: Not Found)         BSA (m2): _____

- - - - - A C T I V E - - - - -
1  ->AMIODARONE TAB          C 10/19/2010 11/18/2010 A
    Give: 400MG PO TID
2  CIMETIDINE TAB          C 10/19/2010 11/18/2010 R
    Give: 300MG PO QHS
- - - - - N O N - V E R I F I E D - - - - -
3  LOVASTATIN TAB          C 10/19/2010 11/18/2010 N NF
    Give: 20MG PO QPM
- - - - - N O N - V E R I F I E D C O M P L E X - - - - -
4  HALOPERIDOL TAB          C 10/19/2010 11/18/2010 N
    Give: 10MG PO BID
    HALOPERIDOL TAB          C 10/19/2010 11/18/2010 N
    Give: 15MG PO QHS
- - - - - P E N D I N G   R E N E W A L S - - - - -
5  CIMETIDINE TAB          ? ***** ***** P
    Give: 300MG PO QHS          Renewed
10/19/2010
- - - - - P E N D I N G   C O M P L E X - - - - -
6  PREDNISONE TAB          ? ***** ***** P
    Give: 20MG PO QAM
    PREDNISONE TAB          ? ***** ***** P
    Give: 10MG PO QOD
    PREDNISONE TAB          ? ***** ***** P
    Give: 5MG PO QD
- - - - - P E N D I N G - - - - -
7  ACETAMINOPHEN TAB       ? ***** ***** P
    Give: 650MG PO Q4H PRN
- - - - - R E C E N T L Y   D I S C O N T I N U E D / E X P I R E D ( L A S T   1 2 0   H O U R S ) - - - - -
8  ASPIRIN TAB,EC          C 10/19/2010 10/19/2010 D
    Give: 325MG PO QHS
9  ->NAPROXEN TAB          C 10/19/2010 10/19/2010 D
    Give: 250MG PO BID
+    Enter ?? for more actions
PI Patient Information      NO New Order Entry
PU Patient Record Update   CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen//

```

The orders on the profile are sorted first by status (ACTIVE, NON-VERIFIED, NON-VERIFIED COMPLEX, PENDING RENEWALS, PENDING COMPLEX, PENDING, RECENTLY DISCONTINUED/EXPIRED), then alphabetically by SCHEDULE TYPE. Pending orders with a priority of STAT are listed first and are displayed in a bold and blinking text for easy identification. After SCHEDULE TYPE, orders are sorted alphabetically by DRUG (the drug name listed on the profile), and then in descending order by START DATE.

Example: Short Profile

```

Inpatient Order Entry      Jun 12, 2006@23:12:54      Page: 1 of 1
PSJPATIENT11, ONE         Ward: 2ASM
PID: 000-55-3421          Room-Bed: 102-1           Ht (cm): _____ (_____)
DOB: 12/02/23 (82)        Att: Psj,Test            Wt (kg): 100.00 (06/24/03)
Sex: MALE                 TrSp: Medical Observati  Admitted: 12/11/01
Dx: HE IS A PAIN.         Last transferred: 12/11/01
CrCL: <Not Found> (CREAT: Not Found)         BSA (m2): _____

- - - - - A C T I V E - - - - -
1  CEFAZOLIN 1 GM          C 06/12 06/22  H
    in 5% DEXTROSE 50 ML Q8H
2  CIMETIDINE TAB          C 06/12 07/12  A
    Give: 300MG PO BID
3  FUROSEMIDE TAB          C 06/01 06/15  HP

```

| Give: 40MG PO QAM | | | | | | | |
|---|---------------------------------|---|-------|-------|----|----|-------|
| ----- N O N - V E R I F I E D ----- | | | | | | | |
| 4 | CAPTOPRIL TAB | C | 06/14 | 06/28 | N | | |
| | Give: 25MG PO BID | | | | | | |
| ----- P E N D I N G R E N E W A L S ----- | | | | | | | |
| 5 | HALOPERIDOL TAB | ? | ***** | ***** | P | | 06/14 |
| | Give: 5MG PO BID | | | | | | |
| ----- P E N D I N G ----- | | | | | | | |
| 6 | HEPARIN/DEXTROSE INJ,SOLN | ? | ***** | ***** | P | | |
| | Give: IV | | | | | | |
| 7 | LACTULOSE SYRUP | ? | ***** | ***** | P | NF | |
| | Give: 10GM/15ML PO BID PRN | | | | | | |
| ----- R E C E N T L Y D I S C O N T I N U E D / E X P I R E D (L A S T X H O U R S) ----- | | | | | | | |
| 8 | FOLIC ACID TAB | C | 06/14 | 06/16 | D | | |
| | Give: 1MG PO QAM | | | | | | |
| 9 | GENTAMICIN 80 MG | C | 06/12 | 06/12 | D | | |
| | in 5% DEXTROSE 100 ML Q8H | | | | | | |
| 10 | ISONIAZID TAB | C | 04/03 | 04/17 | DF | | |
| | Give: 300MG PO QD | | | | | | |
| 11 | POTASSIUM CHLORIDE 10MEQ | C | 06/12 | 06/12 | DA | | |
| | in 5% DEXTROSE 1000 ML Q8H | | | | | | |
| 12 | POTASSIUM CHLORIDE 40 MEQ | C | 06/12 | 06/12 | DD | | |
| | in 5% DEXTROSE 250 ML 120 ml/hr | | | | | | |
| 13 | PROPRANOLOL TAB | C | 06/15 | 06/20 | DP | | |
| | Give: 40MG PO Q6H | | | | | | |
| 14 | THIAMINE TAB | C | 04/03 | 04/17 | E | | |
| | Give: 100MG PO BID | | | | | | |

X - Represents the value set in either the ward or system parameter

Enter ?? for more actions

| | |
|--------------------------|--------------------------------|
| PI Patient Information | NO New Order Entry |
| PU Patient Record Update | CM New Clinic Medication Entry |
| SO Select Order | |

Sets of Complex Orders with a status of “Pending” or “Non-Verified” will be grouped together in the Profile View. They appear as one numbered list item, as shown in the following examples. Once these orders are made active, they will appear individually in the Profile View, with a status of “Active”.

If an order has been verified by pharmacy but has not been verified by nursing, it will be listed under the ACTIVE heading with an arrow (->) to the right of its number. A CPRS Med Order will have a “DONE” priority and will display a “d” to the right of the number on the long profiles. These orders will display under the Non-Active header.

Orders may be selected by choosing the Select Order action, or directly from the profile using the number displayed to the left of the order. Multiple orders may be chosen by entering the numbers of each order to be included separated by commas (e.g., 1,2,3), or a range of numbers using the dash (e.g., 1-3).

The HOURS OF RECENTLY DC/EXPIRED field (#7) has been created in the INPATIENT WARD PARAMETERS file (#59.6). The Inpatient Medications profiles will display the recently discontinued/expired orders that fall within the number of hours specified in this field. The value defined in this field will take precedence over the Inpatient System parameter. The inpatient ward parameter allows for a minimum value of one (1) hour and a maximum value of one hundred twenty (120) hours. The Inpatient *Ward Parameters Edit* [PSJ IWP EDIT] option allows the user to edit this new ward parameter. If this parameter is not set the software will use the

value in the HOURS OF RECENTLY DC/EXPIRED field (#26.8) in the PHARMACY SYSTEM file (#59.7). If neither parameter is set the software will default to twenty-four (24) hours.

The HOURS OF RECENTLY DC/EXPIRED field (#26.8) has been created in the PHARMACY SYSTEM file (#59.7). The Inpatient Medications profiles will display the recently discontinued/expired orders that fall within the number of hours specified in this field. This parameter allows for a minimum value of one (1) hour and a maximum value of one hundred twenty (120) hours. The *Systems Parameters Edit* [PSJ SYS EDIT] option includes the ability for a user to edit this inpatient site parameter. If neither parameter is set the software will default to twenty-four (24) hours.

On the medication profile in the status column the codes and the action they represent are as follows.

Order Status: The current status of the order. These statuses include:

- A Active
- N Non-Verified
- O On Call (IV orders only)
- I Incomplete
- HP Placed on hold by provider through CPRS
- H Placed on hold via backdoor Pharmacy
- E Expired
- DP Discontinued by provider through CPRS
- DE Discontinued due to edit via backdoor Pharmacy (Unit Dose orders only)
- D Discontinued via backdoor Pharmacy (IV & UD); discontinued due to edit via backdoor Pharmacy (IV)

The Status column will also display some additional discontinue type actions performed on the order. The codes and the action they represent are as follows:

- DF Discontinued due to edit by a provider through CPRS
- DD Auto discontinued due to death
- DA Auto discontinued due to patient movements



Example: Pending Complex Order in Profile View

| | | |
|---|-----------------------|---------------------------|
| Inpatient Order Entry | Mar 07, 2004@13:03:55 | Page: 1 of 1 |
| PSJPATIENT1,ONE | Ward: 1 EAST | |
| PID: 000-00-0001 | Room-Bed: B-12 | Ht (cm) : _____ (_____) |
| DOB: 08/18/20 (81) | | Wt (kg) : _____ (_____) |
| Sex: MALE | | Admitted: 03/03/04 |
| Dx: TESTING | | Last transferred: ***** |
| CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12) | | BSA (m2) : _____ |

```

- - - - - P E N D I N G   C O M P L E X   - - - - -
1  CAPTOPRIL TAB          ? ***** ***** P
   Give: 25MG PO QDAILY
   CAPTOPRIL TAB          ? ***** ***** P
   Give: 50MG PO BID
   CAPTOPRIL TAB          ? ***** ***** P
   Give: 100MG PO TID

Enter ?? for more actions
PI Patient Information      NO New Order Entry
PU Patient Record Update   CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen//

```

Example: Non-Verified Complex Order in Profile View

```

Inpatient Order Entry      Mar 07, 2004@13:03:55      Page: 1 of 1
PSJPATIENT1,ONE          Ward: 1 EAST
PID: 000-00-0001         Room-Bed: B-12          Ht (cm) : _____ (_____)
DOB: 08/18/20 (81)      Wt (kg) : _____ (_____)
Sex: MALE                Admitted: 03/03/04
Dx: TESTING              Last transferred: *****
CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12)  BSA (m2) : _____

- - - - - N O N - V E R I F I E D   C O M P L E X   - - - - -
1  CAPTOPRIL TAB          C 03/26/2004 03/27/2004 N
   Give: 25MG PO QDAILY
   CAPTOPRIL TAB          C 03/28/2004 03/29/2004 N
   Give: 50MG PO BID
   CAPTOPRIL TAB          C 03/30/2004 03/31/2004 N
   Give: 100MG PO TID

Enter ?? for more actions
PI Patient Information      NO New Order Entry
PU Patient Record Update   CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen//

```

Example: Active Complex Order in Profile View

```

Inpatient Order Entry      Mar 07, 2004@15:00:05      Page: 1 of 1
PSJPATIENT1,ONE          Ward: 1 EAST
PID: 000-00-0001         Room-Bed: B-12          Ht (cm) : _____ (_____)
DOB: 08/18/20 (81)      Wt (kg) : _____ (_____)
Sex: MALE                Admitted: 03/03/04
Dx: TESTING              Last transferred: *****
CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12)  BSA (m2) : _____

- - - - - A C T I V E   - - - - -
1  CAPTOPRIL TAB          C 03/26/2004 03/27/2004 A
   Give: 25MG PO QDAILY
2  CAPTOPRIL TAB          C 03/28/2004 03/29/2004 A
   Give: 50MG PO BID
3  CAPTOPRIL TAB          C 03/30/2004 03/31/2004 A
   Give: 100MG PO TID

Enter ?? for more actions
PI Patient Information      NO New Order Entry
PU Patient Record Update   CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen//

```

Orders that are dispensed via Pharmacy Automated Dispensing Equipment (PADE) will display a 'PD' flag to the right of the order status. If an order is dispensed via PADE and is also a Ward Stock item, the 'WP' flag will display.

Example: PD and WP Flags for PADE / Ward Stock Items

```

Inpatient Order Entry          Dec 16, 2015@16:51:41          Page: 1 of 10
MONPATNM, MARILYN              Ward: GENERAL          CAD
  PID: 666-00-0195              Room-Bed: GENSUR-2    Ht (cm): _____ (_____)
  DOB: 07/07/67 (48)            Wt (kg): _____ (_____)
  Sex: FEMALE                    Admitted: 08/29/11
  Dx: CHEST PAIN                Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): -
-----
- - - - - A C T I V E - - - - -
  1  ACETAMINOPHEN 160MG/5ML LIQUID,ORAL  C  12/02/2015  12/16/2015  A
      Give: 650MG=20.3ML(1 UD CUP) PO Q12H
  2  FAMCICLOVIR TAB              C  12/03/2015  12/17/2015  A PD
      Give: 250MG PO Q12H
  3  HALOPERIDOL TAB             C  10/28/2015  12/21/2015  A WP
      Give: 20.25MG PO Q24H

PI Patient Information          NO New Order Entry
PU Patient Record Update      CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen//
  
```

4.5.5 Patient Information

The Patient Information screen is displayed for the selected patient. The header contains the patient's demographic data, while the list area contains Allergy/Adverse Reaction data, including remote data and Pharmacy Narratives. If an outpatient is selected, all future appointments in clinics that allow Inpatient Medications orders will display in the list area, too.

Example: Patient Information

```

Patient Information          Sep 13, 2000 15:04:31          Page: 1 of 1
PSJPATIENT1,ONE              Ward: 1 EAST
  PID: 000-00-0001              Room-Bed: B-12        Ht (cm): _____ (_____)
  DOB: 08/18/20 (80)            Wt (kg): _____ (_____)
  Sex: MALE                    Admitted: 05/03/00
  Dx: TESTING                    Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

Allergies/Reactions: No Allergy Assessment
Remote:
Adverse Reactions:
Inpatient Narrative: Narrative for Patient PSJPATIENT1
Outpatient Narrative:

Enter ?? for more actions
PU Patient Record Update      NO New Order Entry
DA Detailed Allergy/ADR List  IN Intervention Menu
VP View Profile               CM New Clinic Medication Entry
Select Action: View Profile//
  
```

Example: Patient Information Screen for Outpatient Receiving Inpatient Medications

```

Patient Information          May 12, 2003 14:27:13          Page: 1 of 1
PSJPATIENT3,THREE           Last Ward: 1 West
  PID: 000-00-0003              Last Room-Bed:        Ht (cm): _____ (_____)
  
```

```

DOB: 02/01/55 (48)                                Wt (kg): _____ (_____)
Sex: FEMALE                                       Last Admitted: 01/13/98
Dx: TESTING                                       Discharged: 01/13/98
CrCL: <Not Found> (CREAT: Not Found)             BSA (m2): _____

Allergies/Reactions: No Allergy Assessment
Remote:
Adverse Reactions:
Inpatient Narrative:
Outpatient Narrative:

Clinic:                                           Date/Time of Appointment:
Clinic A                                         May 23, 2003/9:00 am
Flu Time Clinic                               June 6, 2003/10:00 am
Enter ?? for more actions
PU Patient Record Update                       NO New Order Entry
DA Detailed Allergy/ADR List                   IN Intervention Menu
VP View Profile                                 CM New Clinic Medication Entry
Select Action: View Profile//

```

4.5.6 Select Order

The Select Order action is used to take action on a previously entered order by selecting it from the profile, after the patient is selected and length of profile is chosen (i.e., short or long).

Example: Selecting an Order

```

Inpatient Order Entry      Mar 07, 2002@13:01:56      Page: 1 of 1
PSJPATIENT1,ONE          Ward: 1 EAST
PID: 000-00-0001         Room-Bed: B-12      Ht (cm): _____ (_____)
DOB: 08/18/20 (81)      Wt (kg): _____ (_____)
Sex: MALE                Admitted: 05/03/00
Dx: TESTING              Last transferred: *****
CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

- - - - - A C T I V E - - - - -
1  in 0.9% SODIUM CHLORIDE 1000 ML 125 ml/hrC 03/07/2002 03/07/2002 E
2  in 5% DEXTROSE 50 ML 125 ml/hr           C 03/06/2002 03/06/2002 E
3  CEPHAPIRIN 1 GM                          C 03/04/2002 03/09/2002 A
4  in DEXTROSE 5% IN N. SALINE 100 ML QID
   ASPIRIN CAP,ORAL                          O 03/07/2002 03/07/2002 E
   Give: 650MG PO NOW
- - - - - P E N D I N G - - - - -
5  in DEXTROSE 10% 1000 ML 125 ml/hr        ? ***** ***** P

Enter ?? for more actions
PI Patient Information          NO New Order Entry
PU Patient Record Update       CM New Clinic Medication Entry
SO Select Order
Select Action: Quit// 1

ACTIVE UNIT DOSE          Mar 07, 2002@13:10:46      Page: 1 of 2
PSJPATIENT1,ONE          Ward: 1 EAST
PID: 000-00-0001         Room-Bed: B-12      Ht (cm): _____ (_____)
DOB: 08/18/20 (81)      Wt (kg): _____ (_____)

* (1) Orderable Item: ASPIRIN CAP,ORAL <DIN>
Instructions:
* (2) Dosage Ordered: 325MG
Duration: * (3) Start: 03/07/2002 13:10
* (4) Med Route: ORAL
BCMA ORDER LAST ACTION: 03/07/02 13:09 Given* * (5) Stop: 03/08/2002 24:00
(6) Schedule Type: CONTINUOUS
* (8) Schedule: QID
(9) Admin Times: 09-13-17-21

```



```

*(10) Provider: PSJPROVIDER,ONE [es]
(11) Special Instructions:

(12) Dispense Drug U/D Inactive Date
ASPIRIN BUFFERED 325MG TAB 1

+ Enter ?? for more actions
DC Discontinue ED Edit AL Activity Logs
HD Hold RN Renew
FL (Flag) VF (Verify)
Select Item(s): Next Screen//

```

The list area displays detailed order information and allows actions to be taken on the selected order. A number displayed to the left of the field name identifies fields that may be edited. If a field, marked with an asterisk (*) next to its number, is edited, it will cause this order to be discontinued and a new one created. If a pending order is selected, the system will determine any default values for fields not entered through CPRS and display them along with the data entered by the provider.

The BCMA ORDER LAST ACTION field will only display when an action has been performed through BCMA on this order. This information includes the date and time of the action and the BCMA action status. If an asterisk (*) appears after the BCMA status, this indicates an action was taken on the prior order that is linked to this order.

Actions, displayed in the Action Area, enclosed in parenthesis are not available to the user. In the example above, the action Verify is not available to the user since it was previously verified.

In the order display for an outpatient with inpatient orders, the clinic location and the appointment date and time will display in the screen header area in the same location that the ward and room-bed information displays for an admitted patient.



Example: Order View For An Outpatient With Inpatient Orders

```

ACTIVE UNIT DOSE Nov 28, 2003@10:55:47 Page: 1 of 2
PSJPATIENT3,THREE Clinic: CLINIC (PAT)
PID: 000-00-0003 Clinic Date: 10/31/03 08:00 Ht (cm): _____ (_____)
DOB: 02/01/55 (48) Wt (kg): _____ (_____)

*(1)Orderable Item: CAPTOPRIL TAB <DIN>
Instructions:
*(2)Dosage Ordered: 25MG
*(3)Start: 10/31/2003 08:00
*(4) Med Route: ORAL (BY MOUTH)
*(5) Stop: 11/29/2003 12:56
(6) Schedule Type: CONTINUOUS
*(8) Schedule: BID
(9) Admin Times: 08-20
*(10) Provider: PSJPROVIDER,ONE [s] DURATION:
(11) Special Instructions:

(12) Dispense Drug U/D Inactive Date
CAPTOPRIL 25MG TABS 1

+ Enter ?? for more actions
DC Discontinue ED Edit AL Activity Logs
HD Hold RN Renew
FL Flag VF (Verify)
Select Item(s): Next Screen//

```

4.6 Order Actions

The Order Actions are the actions available in the Action Area of the List Manager Screen. These actions pertain to the patient's orders and include editing, discontinuing, verifying, etc.

4.6.1 Discontinue

When an order is discontinued, the order's Stop Date/Time is changed to the date/time the action is taken. An entry is placed in the order's Activity Log recording who discontinued the order and when the action was taken. Pending and Non-verified orders are deleted when discontinued and will no longer appear on the patient's profile.



Example: Discontinue an Order

```
ACTIVE IV                               Mar 20, 2001@16:37:49           Page: 1 of 1
PSJPATIENT1,ONE                         Ward: 1 EAST
PID: 000-00-0001                         Room-Bed: B-12           Ht (cm) : _____ (_____)
DOB: 08/18/20 (80)                       Wt (kg) : _____ (_____)

* (1) Additives:                         Order number: 65         Type: ADMIXTURE   <DIN>
      POTASSIUM CHLORIDE 40 MEQ
* (2) Solutions:
      0.9% SODIUM CHLORIDE 1000 ML
      Duration:                               * (4) Start: 03/19/2001 11:30
* (3) Infusion Rate: 100 ml/hr
* (5) Med Route: IV                         * (6) Stop: 03/26/2001 24:00
* (7) Schedule:                             Last Fill: 03/19/2001 14:57
* (8) Admin Times:                           Quantity: 2
* (9) Provider: PSJPROVIDER,ONE             [w] Cum. Doses: 43
* (10) Other Print:

(11) Remarks :
      Entry By: PSJPROVIDER,ONE              Entry Date: 03/19/01 11:30
      Enter ?? for more actions
DC Discontinue      RN Renew                FL Flag
ED Edit             OC On Call
HD Hold             AL Activity Logs
Select Item(s): Quit// DC Discontinue
NATURE OF ORDER: WRITTEN// <Enter> W
Requesting PROVIDER: PSJPROVIDER,ONE // <Enter> PROV
REASON FOR ACTIVITY: TESTING

DISCONTINUED IV                               Mar 20, 2001@16:38:28           Page: 1 of 1
PSJPATIENT1,ONE                         Ward: 1 EAST
PID: 000-00-0001                         Room-Bed: B-12           Ht (cm) : _____ (_____)
DOB: 08/18/20 (80)                       Wt (kg) : _____ (_____)

* (1) Additives:                         Order number: 65         Type: ADMIXTURE   <DIN>
      POTASSIUM CHLORIDE 40 MEQ
* (2) Solutions:
      0.9% SODIUM CHLORIDE 1000 ML
      Duration:                               * (4) Start: 03/19/2001 11:30
* (3) Infusion Rate: 100 ml/hr
* (5) Med Route: IV                         * (6) Stop: 03/20/2001 16:38
* (7) Schedule:                             Last Fill: 03/19/2001 14:57
* (8) Admin Times:                           Quantity: 2
* (9) Provider: PSJPROVIDER,ONE             [w] Cum. Doses: 43
* (10) Other Print:
```

```

(11) Remarks :
      Entry By: PSJPROVIDER,ONE          Entry Date: 03/19/01  11:30
      Enter ?? for more actions
DC  (Discontinue)          RN  (Renew)          FL  Flag
ED  (Edit)                OC  (On Call)
HD  (Hold)                AL  Activity Logs
Select Item(s): Quit// <Enter>  QUIT

```

When an action of DC (Discontinue) is taken on one child order that is part of a Complex Order, a message will display informing the user that the order is part of a Complex Order, and the user is prompted to confirm that the action will be taken on all of the associated child orders.

Example: Discontinue a Complex Order

```

ACTIVE UNIT DOSE          Feb 25, 2004@21:25:50          Page: 1 of 2
PSJPATIENT1,ONE          Ward: 1 EAST
  PID: 000-00-0001        Room-Bed: B-12          Ht (cm) : _____ (_____)
  DOB: 08/18/20 (80)          Wt (kg) : _____ (_____)

*(1)Orderable Item: ASPIRIN TAB          <DIN>
  Instructions:
*(2)Dosage Ordered: 650MG
  Duration:
*(4)  Med Route: ORAL
                                     *(3)Start: 03/26/2001  14:40
                                     *(5) Stop: 03/28/2001  24:00

  (6) Schedule Type: CONTINUOUS
*(8)  Schedule: QDAILY
  (9)  Admin Times: 1440
*(10) Provider: PSJPROVIDER,ONE [es]
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
  ASPIRIN BUFFERED 325MG TAB          2
+      Enter ?? for more actions
DC Discontinue          ED (Edit)          AL Activity Logs
HD Hold                RN Renew
FL Flag                VF (Verify)
Select Item(s): Next Screen// <Enter>

Select Item(s): Next Screen// DC Discontinue

This order is part of a complex order. If you discontinue this order the
following orders will be discontinued too (unless the stop date has already
been reached).

Press Return to continue... <Enter>

  CAPTOPRIL TAB          C 03/26 03/27 N
  Give: 25MG PO QDAILY

  CAPTOPRIL TAB          C 03/26 03/29 N
  Give: 100MG PO TID

Press Return to continue... <Enter>

Do you want to discontinue this series of complex orders? Yes//

```

4.6.2 Edit

This action allows modification of any field shown on the order view that is preceded by a number in parenthesis (#).

Example: Edit an Order

```
ACTIVE UNIT DOSE          Sep 13, 2000 15:20:42          Page: 1 of 2
PSJPATIENT1,ONE          Ward: 1 EAST
PID: 000-00-0001         Room-Bed: B-12          Ht (cm) : _____ (_____)
DOB: 08/18/20 (80)      Wt (kg) : _____ (_____)

* (1) Orderable Item: AMPICILLIN CAP
    Instructions:
* (2) Dosage Ordered: 500MG
    Duration:
* (4) Med Route: ORAL
    * (3) Start: 09/07/2000 15:00
    * (5) Stop: 09/21/2000 24:00

(6) Schedule Type: CONTINUOUS
* (8) Schedule: QID
(9) Admin Times: 01-09-15-20
* (10) Provider: PSJPROVIDER,ONE [es]
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
    AMPICILLIN 500MG CAP    1
+ Enter ?? for more actions
DC Discontinue             ED Edit
HD Hold                    RN Renew
FL (Flag)                  VF Verify
Select Item(s): Next Screen//
```

If a field marked with an asterisk (*) to the left of the number is changed, the original order will be discontinued, and a new order containing the edited data will be created. The Stop Date/Time of the original order will be changed to the date/time the new edit order is accepted. The old and new orders are linked and may be viewed using the History Log function. When the screen is refreshed, the field(s) that was changed will now be shown in **blinking reverse video** and “This change will cause a new order to be created” will be displayed in the message window.

If the Dispense Drug or Orderable Item has a non-formulary status, this status will be displayed on the screen as “*N/F*” beside the Dispense Drug or Orderable Item.



Note: The first time a field marked with an asterisk (*) is selected for editing, if CPRS Provider Overrides and/or Pharmacist Interventions exist for the order, entering Y (Yes) at the prompt: “Order Check Overrides/Interventions exist for this order. Display? (Y/N)? Y//” displays the following:

Heading information first, followed by a summary of the Current CPRS Order Checks overridden by the Provider, as well as the Overriding Provider, plus title, Override Entered By, plus title, Date/Time Entered, and the Override Reason.

Example: Edit an Order with Provider Overrides/Interventions

```
=====
** Current Provider Overrides for this order **
=====

Overriding Provider: PSJPROVIDER,ONE (PROVIDER)
Override Entered By: PSJPROVIDER,ONE (PROVIDER)
Date/Time Entered: 07/11/11 09:45
Override Reason: testing functionality of PO & PI
```

```

CRITICAL drug-drug interaction: TAMOXIFEN CITRATE 10MG TAB and WARFARIN NA
(GOLDEN STATE) 1MG TAB [ACTIVE] - The concurrent use of tamoxifen or
toremifene may increase the effects of anticoagulants. - Monograph Available

SIGNIFICANT drug-drug interaction: TAMOXIFEN CITRATE 10MG TAB and
THIORIDAZINE HCL 10MG TAB [UNRELEASED] - Concurrent use of inhibitors of CYP
P-450-2D6 may decrease the effectiveness of tamoxifen in preventing breast
cancer recurrence. Concurrent use of amiodarone or thioridazine may increase
the risk of potentially life-threatening cardiac arrhythmias, including
torsades de pointes. - Monograph Available

Press RETURN to Continue or '^' to Exit :

=====
** Current Pharmacist Interventions for this order **
=====

Intervention Date/Time: 07/11/11 09:50
Pharmacist: PSJPHARMACIST,ONE Drug: TAMOXIFEN CITRATE 10MG TAB
Instituted By: PHARMACY
Intervention: CRITICAL DRUG INTERACTION
Originating Package: INPATIENT

```

Once a Complex Order is made active, the following fields may not be edited:

- ADMINISTRATION TIME
- Any field where an edit would cause a new order to be created. These fields are denoted with an asterisk in the Detailed View of a Complex Order.

If a change to one of these fields is necessary, the Complex Order must be discontinued and a new Complex Order must be created.

Example: Edit an Order (continued)

```

NON-VERIFIED UNIT DOSE      Sep 13, 2000 15:26:46      Page: 1 of 2
PSJPATIENT1,ONE            Ward: 1 EAST
PID: 000-00-0001          Room-Bed: B-12          Ht (cm) : _____ (_____)
DOB: 08/18/20 (80)        Wt (kg) : _____ (_____)

* (1) Orderable Item: AMPICILLIN CAP
  Instructions:
* (2) Dosage Ordered: 500MG
  Duration:
* (4) Med Route: ORAL
* (3) Start: 09/13/2000 20:
* (5) Stop: 09/27/2000 24:00

(6) Schedule Type: CONTINUOUS
* (8) Schedule: QID
(9) Admin Times: 01-09-15-20
* (10) Provider: PSJPROVIDER,ONE
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
    AMPICILLIN 500MG CAP      1

+ This change will cause a new order to be created.
ED Edit                      AC ACCEPT
Select Item(s) : Next Screen//

```

If the ORDERABLE ITEM or DOSAGE ORDERED fields are edited, the Dispense Drug data will not be transferred to the new order. If the Orderable Item is changed, data in the DOSAGE ORDERED field will not be transferred. New Start Date/Time, Stop Date/Time, Login

Date/Time, and Entry Code will be determined for the new order. Changes to other fields (those without the asterisk will be recorded in the order's activity log.
 If the DISPENSE DRUG is edited, an entry in the order's activity log is made to record the change.

If an Orderable Item or Dispense Drug are edited, Enhanced Order Checks are performed.

Example: Edit an Order (continued)

```

Inpatient Order Entry           Apr 28, 2021@12:54:03           Page: 1 of 2
FROPATNM,MISTER                 Ward: GEN MED           A
  PID: 123-33-4444             Room-Bed: A-5           Ht (cm): _____ (_____)
  DOB: 12/11/78 (42)           Wt (kg): _____ (_____)
  Sex: MALE                     Admitted: 04/23/21
  Dx: THIS IS ADMITTING DIAGNOSIS   Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)   BSA (m2): _____

- - - - - A C T I V E - - - - -
1  NAPROXEN TAB                 C 04/28/2021 05/12/2021 A
   Give: 250MG PO BID
2  WARFARIN TAB                 C 04/28/2021 05/12/2021 A
   Give: 2MG PO BID
3  HALOPERIDOL TAB             O 04/27/2021 05/11/2021 A
   Give: 1MG PO NOW
4  AMIKACIN INJ,SOLN           P 04/28/2021 05/12/2021 A
   Give: 500MG/2ML IV BID2 PRN
- - - - - RECENTLY DISCONTINUED/EXPIRED (LAST 72 HOURS) - - - - -
5  AMIKACIN INJ,SOLN           C 04/28/2021 04/28/2021 D
+      Enter ?? for more actions
PI Patient Information           NO New Order Entry
PU Patient Record Update        CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen// SO  Select Order

Select ORDERS (1-5): 2

ACTIVE UNIT DOSE           Apr 28, 2021@13:02:03           Page: 1 of 2
FROPATNM,MISTER                 Ward: GEN MED           A
  PID: 123-33-4444             Room-Bed: A-5           Ht (cm): _____ (_____)
  DOB: 12/11/78 (42)           Wt (kg): _____ (_____)

*(1)Orderable Item: WARFARIN TAB           <DIN>
   Instructions:
*(2)Dosage Ordered: 2MG
   Duration:                               *(3)Start: 04/28/2021 12:53
*(4) Med Route: ORAL (BY MOUTH)
                                           *(5) Stop: 05/12/2021 24:00

(6) Schedule Type: CONTINUOUS
*(8) Schedule: BID
(9) Admin Times: 09-17
*(10) Provider: PROVIDER,INPAT [w]
(11) Special Instructions:

(12) Dispense Drug                 U/D   Inactive Date
    WARFARIN 2MG TABS                1

+      Enter ?? for more actions
DC Discontinue                     ED Edit           AL Activity Logs
HD Hold                             RN Renew
FL Flag                             VF (Verify)
Select Item(s): Next Screen// ED Edit

Select FIELDS TO EDIT: 2

Available Dosage(s)
1. 2MG
  
```

2. 4MG

Select from list of Available Dosages or Enter Free Text Dose: 2MG// 2 4MG

You entered 4MG is this correct? Yes// YES

NON-VERIFIED UNIT DOSE Apr 28, 2021@13:04:56 Page: 1 of 2

FROPATNM, MISTER Ward: GEN MED A
PID: 123-33-4444 Room-Bed: A-5 Ht (cm): _____ (_____)
DOB: 12/11/78 (42) Wt (kg): _____ (_____)

* (1) Orderable Item: WARFARIN TAB <DIN>

Instructions:

* (2) Dosage Ordered: 4MG
Duration: * (3) Start: 04/28/2021 13:05

* (4) Med Route: ORAL (BY MOUTH) * (5) Stop: 05/12/2021 24:00

(6) Schedule Type: CONTINUOUS

* (8) Schedule: BID

(9) Admin Times: 09-17

* (10) Provider: PROVIDER, INPAT [w]

(11) Special Instructions:

(12) Dispense Drug U/D Inactive Date

WARFARIN 2MG TABS 1

+ This change will cause a new order to be created.

ED Edit AC ACCEPT

Select Item(s): Next Screen// AC ACCEPT

******* WARNING *******
WARFARIN is hazardous to handle and dispose. Please take the
appropriate handling and disposal precautions.

Press Return to continue:

Now doing allergy checks. Please wait...

Now processing Clinical Reminder Order Checks. Please wait ...

Now Processing Enhanced Order Checks! Please wait...

Press Return to continue...

NATURE OF ORDER: SERVICE CORRECTION// S

...discontinuing original order...

...creating new order...(you will now work on this new order).



Note: Bolded warning text above may appear after the Accept command (AC) is entered for medications that are marked as Hazardous to Handle and/or Hazardous to Dispose in the National Drug files.

IV Bag/Label Parameters

This section describes IV Parameters in Bar Code Medication Administration (BCMA).

The BCMA IV bag/label parameters determine the status of an order's IV labels after an IV order is edited. The BCMA IV parameters are used to determine if an order's previously printed IV labels are valid (or invalid) after an edit occurs.

BCMA IV parameters are defined primarily by division, and may also be defined by ward location. If no parameters have been defined for a given ward, orders associated with that ward will use the IV parameters for the division associated with the ward.

The following fields are available in the BCMA IV parameters on the IV Order Entry screen:

- Additive
- Strength
- Bottle
- Solution
- Volume
- Infusion Rate
- Med Route
- Schedule
- Admin Time
- Remarks
- Other Print Info
- Provider
- Start Date/Time
- Stop Date/Time
- Provider Comments.

Each field offers a selection of Warning, Non-Verify, and Invalid Bag.

- **If a field is set to Warning**, and an order is changed, the IV bags from the old order are carried to the new order and are available on the BCMA VDL. When a nurse scans the bar code on an IV bag, a Warning message alerts them about fields that have changed.
- **If a field is set to Non-Verify**, and an order is changed, the IV bags from the old order are carried to the new order and are available on the BCMA VDL. When a nurse scans the bar code on an IV bag, NO warning message displays.
- **If a field is set to Invalid Bag**, and an order is changed, the IV bags from the old order do not carry to the new order or display on the BCMA VDL.

Editing Orders when an Invalid IV Bag Event Occurs

The pharmacist is provided a list of invalidated IV bags when an Invalid Bag event has occurred.

An Invalid Bag event occurs when both of the following conditions are met:

- A change is made to any IV order field that matches a BCMA IV Bag site parameter field that is set to “Invalid Bag.”
- IV labels were available for the order prior to the change.



If an Invalid Bag event occurs, the following is displayed after the edited order’s status is changed to ACTIVE:

- The edited field that triggered the IV bags to be invalidated
- The Date and time of each invalidated IV label
- The label ID of each invalidated IV bag
- The status of each invalidated IV bag
- The Count status of each invalidated IV bag.
- The BCMA Action – Date/Time of each invalidated IV bag

Example: Invalid Labels Cannot be Reprinted or Scanned

```
Is this O.K.: Y// y YES
NATURE OF ORDER: SERVICE CORRECTION// SERVICE CORRECTION S

** Edit to PROVIDER has caused the following IV labels to be invalidated **
(Invalid IV labels cannot be reprinted or marked as Infusing in BCMA)

Label Date/Time Unique ID Status Count BCMA Action-Date/Time
-----
09/14/12 16:06 91V149 YES
09/14/12 16:06 91V150 YES
09/14/12 16:06 91V151 YES
```

A pause occurs before the display scrolls to the top of the screen.

After the user enters “YES,” a prompt to print a list of Invalidated IV labels to a device or RETURN to continue displays.

Example: Prompt to Print

```
Enter 'P' to print list of Invalidated Labels or RETURN to continue: p PRINT
DEVICE: HOME//
```

When P is entered at the “Enter P” prompt, the following is displayed in the report:

- Location (current Ward or Clinic)
- Patient Name
- Medication (IV Additive, IV Solution, or Orderable Item)
- Date/time
- V# of the IV bag
- Status
- Count

- BCMA Action-Date/time

Example: List of Invalidated Labels Report

```

Enter 'P' to print list of Invalidated Labels or RETURN to continue: p
PRINT DEVICE
DEVICE: HOME//    SSH VIRTUAL TERMINAL    Right Margin: 80//

                * Invalidated IV Labels *

    Patient: BANPATNM,JAMES E                Location: BECKY'S CLINIC
Additive(s): CEFAMANDOLE 20 GM
Solution(s): DEXTROSE 10% 1000 ML

Label Date/Time  Unique ID          Status      Count BCMA Action-Date/Time
-----
09/14/12 16:06  91V149          YES         YES
09/14/12 16:06  91V150          YES         YES
09/14/12 16:06  91V151          YES         YES

```

When the screen is full, a pause for the report output occurs, if the user selects the device option to print to the screen.

When an invalid bag event occurs, all IV labels associated with the edited order that have not already been invalidated are invalidated. IV labels that were previously invalidated as a result of prior edits are not displayed.

Following the “REASON FOR ACTIVITY:” prompt, the “Print new replacement labels? NO// Y” prompt displays to allow the pharmacist to print replacement labels when the following conditions occur:

- A non-starred field is changed.
- The IV parameter is set to Invalid Bag for an edited field.

Example: Print New Replacement IV Labels

```

REASON FOR ACTIVITY: test

Print new replacement labels? NO// YES

8 Labels needed for doses due at ...

```

IV labels printed prior to an order edit are displayed as available when edits are made to fields set to Warning or Non-Verify in the BCMA IV Parameters.

Example: IV Labels Available and Print New Replacement Labels

```

The following IV labels are available:

Label Date/Time  Unique ID          Status
08/02/12 09:57  8157V178
08/02/12 09:57  8157V179
08/02/12 09:57  8157V180
08/02/12 09:57  8157V181
08/02/12 09:57  8157V182

Print new replacement labels? N// Y

```

The BCMA availability of IV bags may be viewed using the Label Log action. All IV labels that have been invalidated are displayed in the label log file with “NO” in the “Available in BCMA” column.

The label log file displays the status of the IV label as either available or not available in BCMA.

Example: Label Log Display

```
(A)ctivity (L)abel (H)istory (I)nstructions History: Label Log
LABEL LOG:
#  DATE/TIME      ACTION          USER           #LABELS    TRACK          COUNT
=====
1  FEB 26,2013@16:69:53
    DISPENSED     HARRIS, JAMES   3            ORDER ACTION  YES
Enter RETURN to continue or '^' to exit:
Unique IDs for this order:
Label Date/Time Unique ID          Available
in BCMA  Status  Count BCMA Action-Date/Time
02/25/13 15:36 197V6411          NO        YES    YES
02/25/13 15:36 197V6410          NO        YES    YES
02/25/13 15:36 197V6409          NO        YES    YES
(A)ctivity (L)abel (H)istory (I)nstructions History:
```

Labels will not be available in BCMA under the following conditions:

- When the status is Reprint, Recycled, Destroyed or Cancelled.
- When the action is Given, Infusing, Stopped or Completed.
- When an Invalid Bag Event has occurred.

After the above information is displayed in the label log, the below prompt displays for associated linked orders, if they exist. The default is “Y//.”

Example: Associated Linked Orders Prompt

```
Do you wish to see labels from linked (edited) orders? Y//
```

The **clinic location’s abbreviation, or the full clinic name if no abbreviation exists, prints on the IV label when the CLINIC field (#126) is populated.** The ward location name is printed when the CLINIC field is null. The name “OPT. IV.” is printed if neither the clinic location name nor the ward location name is populated.

4.6.3 Verify

Orders must be accepted and verified before they can become active and are included on the pick list, BCMA VDL, etc. If AUTO-VERIFY is enabled for the nurse, new orders immediately become active after entry or finish (pending orders entered through CPRS). Orders verified by

nursing prior to pharmacy verification are displayed on the profile under the active header marked with an arrow (->) to the right of the order number. When verify is selected and when the order has not been verified by the pharmacist, the nurse must enter any missing data and correct any invalid data before the verification is accepted.

When an action of VF (Verify) is taken on one child order that is part of a Complex Order, a message will display informing the user that the order is part of a Complex Order, and the user is prompted to confirm that the action will be taken on all of the associated child orders.



- Schedule containing PRN: (Ex. TID PC PRN). If the schedule contains PRN, the base schedule must be in the ADMINISTRATION SCHEDULE file.
- Day of week schedules (Ex. MO-FR or MO-FR@0900)
- Admin time only schedules (Ex. 09-13)



Verifying Unit Dose Order with Old Schedule Name

| NON-VERIFIED UNIT DOSE | Apr 25, 2017@11:54:58 | Page: | 1 of 3 |
|---|-------------------------|---------------------------|------------|
| PSJPATIENT,ONE | Ward: 7A GEN | | |
| PID: 666-09-4321 | Room-Bed: 722-C | Ht (cm): 165.10 | (04/19/17) |
| DOB: 04/05/44 (73) | Att: Psj,Test | Wt (kg): 77.11 | (04/19/17) |
| Sex: FEMALE | TrSp: Medical Observati | Admitted: 04/19/17 | |
| Dx: CHEST PAIN | Last transferred: ***** | | |
| CrCL: 33.2 (est.) (CREAT: 1.5mg/dL 4/19/17) | BSA (m2): 1.85 | | |
| * (1) Orderable Item: EPOETIN ALFA, RECOMBINANT INJ, SOLN | | | |
| Instructions: 10000UNIT/1ML | | | |
| * (2) Dosage Ordered: 10000UNIT/1ML | | | |
| Duration: | | (3) Start: 04/25/17 | 11:14 |
| * (4) Med Route: SUBCUTANEOUS | | REQUESTED START: 04/28/17 | 09:00 |
| | | (5) Stop: 04/26/17 | 24:00 |
| (6) Schedule Type: CONTINUOUS | | | |
| * (8) Schedule: Q72H | | | |

```

(9) Admin Times: 0900
*(10) Provider: PROVIDER,ONE [es]
(11) Special Instructions:
+ Enter ?? for more actions
DC Discontinue ED Edit AL Activity Logs
HD (Hold) RN (Renew)
FL Flag VF Verify
Select Item(s): Next Screen// VF Verify

The schedule Q72H has been replaced with Q3D by the system administrator
after this order was entered.

Please correct the schedule before verifying this order.

Press Return to continue...

<User will be taken back to the patient's profile>

```

If the Dispense Drug or Orderable Item has a non-formulary status, this status will be displayed on the screen as “*N/F*” beside the Dispense Drug or Orderable Item.

Example: Verify an Order

```

NON-VERIFIED UNIT DOSE Apr 28, 2021@11:55:58 Page: 1 of 2
PSJPATIENT1,ONE Ward: GENERAL A
PID: 000-00-0202 Room-Bed: GENMED-2 Ht (cm): _____ (_____)
DOB: 05/16/70 (50) Wt (kg): _____ (_____)

*(1)Orderable Item: FLUOROURACIL INJ,SOLN
Instructions:
*(2)Dosage Ordered: 50MG/1ML
Duration: (3)Start: 04/28/2021 13:00
*(4) Med Route: SUBCUTANEOUS (5) Stop: 05/03/2021 22:00

(6) Schedule Type: CONTINUOUS
*(8) Schedule: TID
(9) Admin Times: 09-13-17
*(10) Provider: McCOY, BONES [w]
(11) Special Instructions!: (see below)
Adding Special Instructions.

(12) Dispense Drug U/D Inactive Date
+ Enter ?? for more actions
DC Discontinue ED Edit AL Activity Logs
HD (Hold) RN (Renew)
FL Flag VF Verify
Select Item(s): Next Screen// VF Verify

-----
***** WARNING *****
FLUOROURACIL is hazardous to handle and dispose. Please take the
appropriate handling and disposal precautions.
-----

Press Return to continue:

Now doing allergy checks. Please wait...

Now processing Clinical Reminder Order Checks. Please wait ...

Now Processing Enhanced Order Checks! Please wait...

Press Return to continue...

```

```

...a few moments, please....

Pre-Exchange DOSES:

ORDER VERIFIED.

Type <Enter> to continue or '^' to exit:

```



Note: Bolded warning text above may appear, after the Verify command (VF) is entered for medications that are marked as Hazardous to Handle and/or Hazardous to Dispose in the National Drug files.

4.6.4 Hold

Only active orders may be placed on hold. Orders placed on hold will continue to show under the ACTIVE heading on the profiles until removed from hold. Any orders placed on hold through the pharmacy options cannot be released from hold using any of the CPRS options. An entry is placed in the order's Activity Log recording the user who placed/removed the order from hold and when the action was taken.

If the Dispense Drug or Orderable Item has a non-formulary status, this status will be displayed on the screen as “*N/F*” beside the Dispense Drug or Orderable Item.

Example: Place an Order on Hold

```

ACTIVE UNIT DOSE          Feb 25, 2001@21:25:50          Page: 1 of 2
PSJPATIENT1,ONE          Ward: 1 EAST
PID: 000-00-0001         Room-Bed: B-12              Ht (cm) : ( )
DOB: 08/18/20 (80)      Att: Psj,Test              Wt (kg) : ( )

*(1) Orderable Item: ASPIRIN TAB          <DIN>
      Instructions:
*(2) Dosage Ordered: 650MG
      Duration:
*(3) Start: 02/26/01 14:
*(4) Med Route: ORAL
*(5) Stop: 02/28/01 24:00
(6) Schedule Type: CONTINUOUS
*(8) Schedule: QDAILY
(9) Admin Times: 1440
*(10) Provider: PSJPROVIDER,ONE [es]
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
      ASPIRIN BUFFERED 325MG TAB          2
+      Enter ?? for more actions
DC Discontinue          ED Edit          AL Activity Logs
HD Hold          RN Renew
FL Flag          VF (Verify)
Select Item(s): Next Screen// HD Hold

Do you wish to place this order 'ON HOLD'? Yes// <Enter> (Yes)
NATURE OF ORDER: WRITTEN// <Enter> W...
COMMENTS:
  1>TESTING
  2>
EDIT Option: . <Enter>
Enter RETURN to continue or '^' to exit: <Enter>

```

-----report continues-----

Notice that the order shows a status of “H” for hold in the right side of the Aspirin Tablet order below.

Example: Place an Order on Hold (continued)

```

HOLD UNIT DOSE          Feb 25, 2001@21:27:57          Page: 1 of 2
PSJPATIENT1,ONE        Ward: 1 EAST
  PID: 000-00-0001      Room-Bed: B-12          Ht (cm) : _____ (_____)
  DOB: 08/18/20 (80)   Att: Psj,Test         Wt (kg) : _____ (_____)

* (1) Orderable Item: ASPIRIN TAB <DIN>
  Instructions:
* (2) Dosage Ordered: 650MG
  Duration:
* (3) Start: 02/26/01 14:40
* (4) Med Route: ORAL
* (5) Stop: 02/28/01 24:00

(6) Schedule Type: CONTINUOUS
* (8) Schedule: QDAILY
(9) Admin Times: 1440
* (10) Provider: PSJPROVIDER,ONE [es]
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
  ASPIRIN BUFFERED 325MG TAB 2
+ Enter ?? for more actions
DC Discontinue             ED (Edit)          AL Activity Logs
HD Hold                    RN (Renew)
FL Flag                    VF (Verify)
Select Item(s): Next Screen// <Enter>

HOLD UNIT DOSE          Feb 25, 2001@21:28:20          Page: 2 of 2
PSJPATIENT1,ONE        Ward: 1 EAST
  PID: 000-00-0001      Room-Bed: B-12          Ht (cm) : _____ (_____)
  DOB: 08/18/20 (80)   Att: Psj,Test         Wt (kg) : _____ (_____)
+
(7) Self Med: NO

Entry By: PSJPROVIDER,ONE          Entry Date: 02/25/01 21:25

(13) Comments:
  TESTING

  Enter ?? for more actions
DC Discontinue             ED (Edit)          AL Activity Logs
HD Hold                    RN (Renew)
FL Flag                    VF (Verify)
Select Item(s): Quit// <Enter>

Unit Dose Order Entry    Feb 25, 2001@21:30:15          Page: 1 of 1
PSJPATIENT1,ONE        Ward: 1 EAST
  PID: 000-00-0001      Room-Bed: B-12          Ht (cm) : _____ (_____)
  DOB: 08/18/20 (80)   Att: Psj,Test         Wt (kg) : _____ (_____)
  Sex: MALE              TrSp: Medical Observati  Admitted: 05/03/00
  Dx: TESTING            Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

- - - - - A C T I V E - - - - -
1  ASPIRIN TAB          C 02/26 02/28  H
  Give: 650MG ORAL QDAILY

  Enter ?? for more actions
PI Patient Information    NO New Order Entry
PU Patient Record Update CM New Clinic Medication Entry
  
```

```
SO Select Order
Select Action: Quit//
```

4.6.5 Renew

Medication orders (referred to in this section as orders) that may be renewed include the following:

- All non-complex active Unit Dose and IV orders.
- Orders that have been discontinued due to ward transfer or treating specialty change.
- Expired orders containing an administration schedule (Unit Dose and scheduled IV orders) that have not had a scheduled administration time since the last BCMA action was taken.
- Expired orders not containing an administration schedule (continuous IV orders) that have had an expired status less than the time limit defined in the EXPIRED IV TIME LIMIT field in the PHARMACY SYSTEM file.



Renewing Orders with CPRS Overrides/Pharmacist Interventions

When renewing an order, if CPRS Provider Overrides and/or Pharmacy Interventions exist for the order, entering Y (Yes) at the prompt: “Order Check Overrides/Interventions exist for this order. Display? (Y/N)? Y//” displays the heading information first, followed by a summary of the Current CPRS Order Checks overridden by the Provider.

If current Pharmacist Interventions exist, they will display with the following fields (if populated), Heading, Intervention Date/Time, Provider, Pharmacist, Drug, Instituted By, Intervention, Recommendation, and Originating Package.

Example: Renew an Order with Provider Overrides/Interventions

```
=====
** Current Provider Overrides for this order **
=====

Overriding Provider: PSJPROVIDER,ONE (PROVIDER)
Override Entered By: PSJPROVIDER,ONE (PROVIDER)
Date/Time Entered: 07/11/11 09:45
  Override Reason: testing functionality of PO & PI

CRITICAL drug-drug interaction: TAMOXIFEN CITRATE 10MG TAB and WARFARIN NA
(GOLDEN STATE) 1MG TAB [ACTIVE] - The concurrent use of tamoxifen or
toremifene may increase the effects of anticoagulants. - Monograph Available

SIGNIFICANT drug-drug interaction: TAMOXIFEN CITRATE 10MG TAB and
THIORIDAZINE HCL 10MG TAB [UNRELEASED] - Concurrent use of inhibitors of CYP
P-450-2D6 may decrease the effectiveness of tamoxifen in preventing breast
cancer recurrence. Concurrent use of amiodarone or thioridazine may increase
the risk of potentially life-threatening cardiac arrhythmias, including
torsades de pointes. - Monograph Available

Press RETURN to Continue or '^' to Exit :
=====
```


** Current Pharmacist Interventions for this order **

```

=====
Intervention Date/Time: 07/11/11 09:50
Pharmacist: PSJPHARMACIST,ONE           Drug: TAMOXIFEN CITRATE 10MG TAB
Instituted By: PHARMACY
Intervention: CRITICAL DRUG INTERACTION
Originating Package: INPATIENT
    
```



** Current Provider Overrides for this order **

No Provider Overrides to display

** Current Pharmacist Interventions for this order **

```

=====
Intervention Date: 07/11/11 14:55
Provider: PSJPROVIDER,ONE               Pharmacist: PSJPHARMACIST,ONE
Drug: WARFARIN NA (GOLDEN STATE) 1MG TAB
Instituted By: PHARMACY
Intervention: CRITICAL DRUG INTERACTION
Recommendation: OTHER                   Originating Package: INPATIENT
Other For Recommendation:
TEST INTERVENTION FOR CRITICAL DRUG-DRUG
    
```



RENEWING A UNIT DOSE ORDER WITH OLD SCHEDULE NAME

```

ACTIVE UNIT DOSE           Apr 25, 2017@14:38:03           Page: 1 of 3
PSJPATIENT,ONE            Ward: 7A GEN
PID: 666-09-4321          Room-Bed: 722-C                Ht(cm): 165.10 (04/19/17)
DOB: 04/05/44 (73)       Att: Psj,Test                  Wt(kg): 77.11 (04/19/17)
Sex: FEMALE                Admitted: 04/19/17
Dx: CHEST PAIN            Last transferred: *****
CrCL: 33.2(est.) (CREAT: 1.5mg/dL 4/19/17)  BSA (m2): 1.85

* (1) Orderable Item: EPOETIN ALFA, RECOMBINANT INJ, SOLN
    Instructions:
* (2) Dosage Ordered: 3000UNIT/1ML
    Duration:
* (3) Start: 04/25/17 14:23
* (4) Med Route: SUBCUTANEOUS
* (5) Stop: 07/24/17 24:00
(6) Schedule Type: CONTINUOUS
* (8) Schedule: Q72H
(9) Admin Times: 0900
* (10) Provider: INPATIENT-MEDS, PROVIDER [w]
(11) Special Instructions:
+ Enter ?? for more actions
DC Discontinue           ED Edit                   AL Activity Logs
    
```

```
HD Hold          RN Renew
FL Flag          VF (Verify)
Select Item(s): Next Screen// rn Renew
```

The schedule Q72H has been replaced with Q3D by the system administrator after this order was renewed.

WARNING - Renewed RXs cannot be edited. Please enter new order.

Press Return to continue...

<User will be taken to the patient's profile>

Renewing Active Orders

The following applies when the RN (Renew) action is taken on any order with a status of “Active”:

- A new Default Stop Date/Time is calculated for the order using the same calculation applied to new orders. The starting point of the Default Stop Date/Time calculation is the date and time that the order was signed in CPRS or the date and time that the RN (Renew) action was taken in Inpatient Medications.
- The RN (Renew) action does not create a new order.
- The Start Date/Time is not available for editing when an order is renewed.



Renewing Discontinued Orders

IV and Unit Dose orders that have been discontinued, either through the (DC) Discontinue action or discontinued due to edit, cannot be renewed.

IV and Unit Dose medication orders that have been discontinued due to ward transfer or treating specialty change will allow the (RN) Renew action.

Renewing Expired Unit Dose Orders

The following applies to expired Unit Dose orders having a schedule type of Continuous or PRN.

1. The RN (Renew) action will not be available on an order with a status of “Expired” if either of the following two conditions exist:
 - a. If the difference between the current system date and time and the last scheduled administration time is greater than the frequency of the schedule. This logic will be used for schedules with standard intervals (for example, Q7H).
 - b. If the current system date and time is greater than the time that the next dose is due. This logic is used for schedules with non-standard intervals (for example, Q6H – 0600-1200-1800-2400).

2. A new Default Stop Date/Time is calculated for the order using the same calculation applied to new orders. The starting point of the Default Stop Date/Time calculation is the date and time that the order was signed in CPRS or the date and time that the RN (Renew) action was taken in Inpatient Medications.
3. The (RN) Renew action does not create a new order.
4. The Start Date/Time is not available for editing when an order is renewed.
5. The renewed order has a status of “Active.”

Renewing Expired Scheduled IV Orders

The following applies to only IV orders that have a scheduled administration time.

1. The RN (Renew) action is not available on a scheduled IV order with a status of “Expired” if either of the following two conditions exist:
 - a. If the difference between the current system date and time and the last scheduled administration time is greater than the frequency of the schedule. This logic is used for schedules with standard intervals (for example, Q7H).
 - b. If the current system date and time is greater than the time that the next dose is due. This logic is used for schedules with non-standard intervals (for example, Q6H – 0600-1200-1800).
2. A new Default Stop Date/Time is calculated for the order using the same calculation applied to new orders. The starting point of the Default Stop Date/Time calculation is the date and time that the order was signed in CPRS or the date and time that the RN (Renew) action was taken in Inpatient Medications.
3. The RN (Renew) action does not create a new order.
4. The Start Date/Time is not available for editing when an order is renewed.
5. The renewed order has a status of “Active.”

Renewing Expired Continuous IV Orders

The following applies to IV orders that do not have a scheduled administration time.

1. For Continuous IV orders having a status of “Expired,” the “Expired IV Time Limit” system parameter controls whether or not the RN (Renew) action is available. If the number of hours between the expiration date/time and the current system date and time is less than this parameter, the RN (Renew) action is allowed. This parameter has a range of 0 to 24 hours, and may be changed using the PARameters Edit Menu option.
2. If the RN (Renew) action is taken on a renewable continuous IV order, a new Default Stop Date/Time is calculated using existing Default Stop Date/Time calculations. The starting point of the Default Stop Date/Time calculation is the date and time that the order was signed in CPRS or the date and time that the RN (Renew) action was taken in Inpatient Medications.
3. The RN (Renew) action does not create a new order.

4. The Start Date/Time is not available for editing when an order is renewed.
5. The renewed order has a status of “Active.”

Renewing Complex Orders

When an action of RN (Renew) is taken on one child order that is part of a Complex Order, a message will display informing the user that the order is part of a Complex Order, and the user is prompted to confirm that the action will be taken on all of the associated child orders.



Only Complex Orders created with the conjunction AND will be available for renewal.

Orders created by checking the “Give additional dose now” box in CPRS, when ordered in conjunction with a Complex Order, will not be available for renewal.

Example: Renew a Complex Order

```

ACTIVE UNIT DOSE          Feb 25, 2004@21:25:50          Page: 1 of 2
PSJPATIENT1,ONE          Ward: 1 EAST
  PID: 000-00-0001        Room-Bed: B-12          Ht (cm) : _____ (_____)
  DOB: 08/18/20 (80)          Wt (kg) : _____ (_____)

*(1)Orderable Item: ASPIRIN TAB          <DIN>
  Instructions:
*(2) Dosage Ordered: 650MG
  Duration:
*(4) Med Route: ORAL
*(3) Start: 03/26/2001 14:40
*(5) Stop: 03/28/2001 24:00
(6) Schedule Type: CONTINUOUS
*(8) Schedule: QDAILY
(9) Admin Times: 1440
*(10) Provider: PSJPROVIDER,ONE [es]
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
  ASPIRIN BUFFERED 325MG TAB          2
+ Enter ?? for more actions
DC Discontinue          ED (Edit)
HD Hold          RN Renew
FL Flag          VF (Verify)
Select Item(s): Next Screen// RN Renew

This order is part of a complex order. If you RENEW this order the
following orders will be RENEWED too.

Press Return to continue... <Enter>

  DIGOXIN TAB          C 03/26 03/29 A
  Give: 200MG PO BID

  DIGOXIN TAB          C 03/26 03/28 A
  Give: 100MG PO TID

Press Return to continue... <Enter>

RENEW THIS COMPLEX ORDER SERIES? YES//

```

Viewing Renewed Orders

The following outlines what the user may expect following the renewal process:

1. The patient profile will contain the most recent renewal date in the Renewed field.
2. The patient detail will contain the most recent renewal date and time in the Renewed field.
3. The Activity Log will display the following:
 - ORDER EDITED activity, including the previous Stop Date/Time and the previous Provider (if a new Provider is entered at the time the order is renewed).
 - ORDER RENEWED BY PHARMACIST activity, including the pharmacist that renewed the order and the date and time that the RN (Renew) action was taken.

Example: Renewed Order in Profile View

```

Inpatient Order Entry      Feb 25, 2004@21:25:50      Page: 1 of 1
PSJPATIENT1,ONE          Ward: 1 EAST
  PID: 000-00-0001        Room-Bed: B-12          Ht (cm) : _____ (_____)
  DOB: 08/18/20 (83)      Wt (kg) : _____ (_____)
  Sex: MALE                Admitted: 05/03/00
  Dx: TESTING              Last transferred: *****
  CrCL: <Not Found> (CREAT: Not Found)  BSA (m2): _____

- - - - - A C T I V E - - - - -
  1  ASPIRIN TAB 650      C 03/26/2004 03/28/2004  A
      Give: 650MG PO QDAILY      Renewed: 03/27/2004

Enter ?? for more actions
PI Patient Information      NO New Order Entry
PU Patient Record Update   CM New Clinic Medication Entry
SO Select Order
Select Action: Quit// 1
  
```

Example: Renewed Order in Detailed Order View

```

ACTIVE UNIT DOSE          Feb 25, 2004@21:25:50      Page: 1 of 2
PSJPATIENT1,ONE          Ward: 1 EAST
  PID: 000-00-0001        Room-Bed: B-12          Ht (cm) : _____ (_____)
  DOB: 08/18/20 (80)      Wt (kg) : _____ (_____)

* (1) Orderable Item: ASPIRIN TAB      <DIN>
  Instructions:
* (2) Dosage Ordered: 650MG
  Duration:
* (4) Med Route: ORAL
      (6) Schedule Type: CONTINUOUS
* (8) Schedule: QDAILY
  (9) Admin Times: 1440
* (10) Provider: PSJPROVIDER,ONE [es]
  (11) Special Instructions:

  (12) Dispense Drug      U/D      Inactive Date
      ASPIRIN BUFFERED 325MG TAB      2
  
```

```

+          Enter ?? for more actions
DC Discontinue          ED (Edit)          AL Activity Logs
HD Hold                 RN Renew
FL Flag                 VF (Verify)
Select Item(s): Next Screen//

ACTIVE UNIT DOSE          Feb 25, 2004@21:28:20          Page: 2 of 2
PSJPATIENT1,ONE          Ward: 1 EAST
  PID: 000-00-0001        Room-Bed: B-12          Ht (cm) : _____ ( _____ )
  DOB: 08/18/20 (80)      Wt (kg) : _____ ( _____ )
+
(7) Self Med: NO

Entry By: PSJPROVIDER,ONE          Entry Date: 03/25/04 21:25
Renewed By: PSJPROVIDER,ONE
(13) Comments:
TESTING

          Enter ?? for more actions
DC Discontinue          ED (Edit)          AL Activity Logs
HD Hold                 RN (Renew)
FL (Flag)              VF (Verify)
Select Item(s): Quit// <Enter>

```

Discontinuing a Pending Renewal

When a pharmacist attempts to discontinue a pending renewal, the following message displays.

This order is in a pending status. If this pending order is discontinued, the original order will still be active.

If this occurs, a pharmacist may discontinue a pending order, both orders, or exit the discontinue function. When a pending renewal is discontinued, the order will return to its previous status.

Orders That Change Status During Process of Renew

Orders that are active during the renewal process but become expired during the pharmacy finishing process follow the logic described in *Renewing Expired Unit Dose Orders*, *Renewing Expired Scheduled IV Orders*, and *Renewing Expired Continuous IV Orders*.

4.6.6 Activity Log

This action allows viewing of a long or short activity log dispense log, history log, or instructions history of the order. A short activity log only shows actions taken on orders and does not include field changes. The long activity log shows actions taken on orders and does include the requested Start and Stop Date/Time values. If a history log is selected, it will find the first order, linked to the order where the history log was invoked. Then the log will display an order view of each order associated with it, in the order that they were created. If an instructions history log is selected, it will find the first order linked to the order where the history log was invoked from, then show each incremental change to the instructions in the order they were created. When a dispense log is selected, it shows the dispensing information for the order.

Example: Activity Log

```
ACTIVE UNIT DOSE          Sep 21, 2000 12:44:25          Page: 1 of 2
PSJPATIENT1,ONE          Ward: 1 EAST
PID: 000-00-0001         Room-Bed: B-12          Ht (cm) : _____ (_____)
DOB: 08/18/20 (80)      Wt (kg) : _____ (_____)

*(1)Orderable Item: AMPICILLIN CAP
    Instructions:
*(2)Dosage Ordered: 500MG
    Duration:
*(3)Start: 09/07/2000 15:00
*(4) Med Route: ORAL
*(5) Stop: 09/21/2000 24:00

(6) Schedule Type: CONTINUOUS
*(8) Schedule: QID
(9) Admin Times: 01-09-15-20
*(10) Provider: PSJPROVIDER,ONE [es]
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
    AMPICILLIN 500MG CAP    1
+      Enter ?? for more actions
DC Discontinue             ED Edit
HD Hold                    RN Renew
FL Flag                    VF Verify
Select Item(s): Next Screen// AL Activity Logs

1 - Short Activity Log
2 - Long Activity Log
3 - Dispense Log
4 - History Log
5 - Instructions History

Select LOG to display: 2 Long Activity Log
Date: 09/07/00 14:07      User: PSJPHARMACIST,ONE
Activity: ORDER VERIFIED BY PHARMACIST

Date: 09/07/00 14:07      User: PSJPHARMACIST,ONE
Activity: ORDER VERIFIED
Field: Requested Start Date
Old Data: 09/07/00 09:00

Date: 09/07/00 14:07      User: PSJPHARMACIST,ONE
Activity: ORDER VERIFIED
Field: Requested Stop Date
Old Data: 09/07/00 24:00

Enter RETURN to continue or '^' to exit:
```

4.6.7 Finish



When an order is placed or renewed by a provider through CPRS, the nurse or pharmacist needs to finish and/or verify this order. The same procedures are followed to finish the renewed order as to finish a new order with the following exceptions:

The PENDING RENEWAL orders may be speed finished from within the Unit Dose *Order Entry* option. The user may enter an **SF**, for speed finish, at the “Select ACTION:”

prompt and then select the pending renewals to be finished. A prompt is issued for the Stop Date/Time. This value is used as the Stop Date/Time for the pending renewals selected. All other fields will retain the values from the renewed order.



When an action of FN (Finish) is taken on one child order that is part of a Complex Order, a message will display informing the user that the order is part of a Complex Order, and the user is prompted to confirm that the action will be taken on all of the associated child orders.



Example: Complex Unit Dose Orders with Overlapping Administration Times

When finishing (FN) a complex unit dose drug order with overlapping admin times, after you select the order, a warning message is displayed with the warning and the overlapping admin times.

```
**WARNING**
The highlighted admin times for these portions of this complex order overlap.

Part 1 has a schedule of BID and admin time(s) of 10-22.
AND
Part 2 has a schedule of QDAY and admin time(s) of 10.

Please ensure the schedules and administration times are appropriate.

Press Return to continue...

          Enter ?? for more actions
PI Patient Information          NO New Order Entry
PU Patient Record Update       CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen//
```

To finish the order, you must correct the order so that there are no overlapping admin times.



Finishing Unit Dose Order with Old Schedule Name

| | | |
|------------------------------------|-----------------------|----------------------------|
| PENDING UNIT DOSE (ROUTINE) | Apr 20, 2017@11:15:51 | Page: 1 of 3 |
| PSJPATIENT, ONE | Ward: 7A GEN | |
| PID: 666-09-4321 | Room-Bed: 722-C | Ht (cm): 165.10 (04/19/17) |
| DOB: 04/05/44 (73) | Att: Psj, Test | Wt (kg): 77.11 (04/19/17) |


```

* (1) Orderable Item: EPOETIN ALFA, RECOMBINANT INJ, SOLN
      Instructions: 20000UNIT/2ML
* (2) Dosage Ordered: 20000UNIT/2ML
      Duration: (3) Start: 04/20/17 11:14
* (4) Med Route: SUBCUTANEOUS REQUESTED START: 04/23/17 09:00
      (5) Stop: 04/26/17 24:00

(6) Schedule Type: CONTINUOUS
* (8) Schedule: Q72H
(9) Admin Times: 0900
* (10) Provider: PROVIDER, ONE [es]
(11) Special Instructions: (12) Dispense
Drug U/D Inactive Date
-----
EPOETIN ALPHA, RECOMB 2000 UNT/ML INJ 1

+ Enter ?? for more actions
BY Bypass FL (Flag)
DC Discontinue FN Finish
Select Item(s): Next Screen// FN Finish

The schedule Q72H has been replaced with Q3D by the system administrator
after this order was entered.

Do you wish to continue with the current order? YES//

Remote data not available - Only local order checks processed.

Now doing allergy checks. Please wait...

Now processing Clinical Reminder Order Checks. Please wait ...

Now Processing Enhanced Order Checks! Please wait...

NON-VERIFIED UNIT DOSE Apr 20, 2017@11:20 Page: 1 of 3
PSJPATIENT, ONE Ward: 7A GEN
PID: 666-09-4321 Room-Bed: 722-C Ht (cm): 165.10 (04/19/17)
DOB: 04/05/44 (73) Att: Psj, Test Wt (kg): 77.11 (04/19/17)

* (1) Orderable Item: EPOETIN ALFA, RECOMBINANT INJ, SOLN
      Instructions: 20000UNIT/2ML
* (2) Dosage Ordered: 20000UNIT/2ML
      Duration: (3) Start: 04/20/17 11:14
* (4) Med Route: SUBCUTANEOUS REQUESTED START: 04/23/17 09:00
      (5) Stop: 04/26/17 24:00

(6) Schedule Type: CONTINUOUS
* (8) Schedule: Q3D
(9) Admin Times: 0900
* (10) Provider: PROVIDER, ONE [es]
(11) Special Instructions:
(12) Dispense Drug U/D Inactive Date
-----
EPOETIN ALFA, RECOMBINANT 10000UNT/ML INJ 2

+ Enter ?? for more actions
ED Edit AC ACCEPT
Select Item(s): Next Screen//AC

```

When finishing the order which contains an Old Schedule Name, the user will be notified that the schedule within the order has been replaced with a new name and asked if they wish to continue with the current order. If the user chooses to continue, the software will replace the old schedule name with the new schedule name in the order. If the user chooses not to continue, the software will return them to the pending unit dose order screen .



PENDING RENEWAL FOR UNIT DOSE ORDER WITH OLD SCHEDULE NAME

```

PENDING UNIT DOSE (ROUTINE) Apr 25, 2017@14:44:47 Page: 1 of 3
PSJPATIENT,ONE Ward: 7A GEN
PID: 666-09-4321 Room-Bed: 722-C Ht(cm): 165.10 (04/19/17)
DOB: 04/05/44 (73) Wt(kg): 77.11 (04/19/17)

* (1) Orderable Item: EPOETIN ALFA, RECOMBINANT INJ, SOLN
Instructions: 2000UNIT/1ML
* (2) Dosage Ordered: 2000UNIT/1ML
Duration: (3) Start: 04/25/2017 14:10
* (4) Med Route: SUBCUTANEOUS Renewed: 04/25/2017 14:19
(5) Stop: 05/02/2017 24:00

(6) Schedule Type: CONTINUOUS
* (8) Schedule: Q72H
(9) Admin Times: 0900
* (10) Provider: PROVIDER, ONE [es]
(11) Special Instructions:
(12) Dispense Drug U/D Inactive Date
EPOETIN ALPHA, RECOMB 2000 UNT/ML INJ 1

+ Enter ?? for more actions
BY Bypass FL (Flag)
DC Discontinue FN Finish
Select Item(s): Next Screen// FN Finish

The schedule Q72H has been replaced with Q3D by the system administrator
after this order was renewed.

WARNING - Renewed RXs cannot be edited. Please enter new order.

Press Return to continue...

<User will be taken back to the detailed order screen>

```



Note: When finishing an order, if CPRS Order Checks/Provider Overrides and Pharmacist Interventions exist, they will display during the finish process. Heading information displays first, followed by a summary of the Current CPRS Order Checks overridden by the Provider, as well as the Overriding Provider, plus title, Override Entered By, plus title, Date/Time Entered, and the Override Reason.

Example: Finish an Order with Provider Overrides/Interventions

```

=====
** Current Provider Overrides for this order **
=====
Overriding Provider: PSJPROVIDER, ONE (PROVIDER)
Override Entered By: PSJPROVIDER, ONE (PROVIDER)
Date/Time Entered: 07/11/11 17:40
Override Reason: Provider gave permission to administer

```

CRITICAL drug-drug interaction: METRONIDAZOLE 250MG TAB and WARFARIN NA (GOLDEN STATE) IMG TAB [ACTIVE] - Concurrent use of anticoagulants with metronidazole or tinidazole may result in reduced prothrombin activity and/or increased risk of bleeding. - Monograph Available



Example: Finish an Order Without a Duration

```
PENDING IV (ROUTINE)          Sep 07, 2000 16:11:42          Page:    1 of    2
PSJPATIENT1,ONE              Ward: 1 EAST
  PID: 000-00-0001            Room-Bed: B-12          Ht (cm): _____ (_____)
  DOB: 08/18/20 (80)          Wt (kg): _____ (_____)

(1) Additives:                                     Type:
(2) Solutions:
    Duration:                                     (4) Start: *****
(3) Infusion Rate:
                                         REQUESTED START: 09/07/2000 09:00
* (5) Med Route: IVPB                               (6) Stop: *****
* (7) Schedule: QID                                 Last Fill: *****
(8) Admin Times: 01-09-15-20                       Quantity: 0
* (9) Provider: PSJPROVIDER,ONE [es]               Cum. Doses:
* (10) Orderable Item: AMPICILLIN INJ
    Instructions:
(11) Other Print:
    Provider Comments: THIS IS AN INPATIENT IV EXAMPLE.
+ Enter ?? for more actions
DC Discontinue          FL (Flag)
ED Edit                 FN Finish
Select Item(s): Next Screen// FN Finish
COMPLETE THIS ORDER AS IV OR UNIT DOSE? IV// IV
Copy the Provider Comments into Other Print Info? Yes// YES
IV TYPE: PB
CHOOSE FROM:
    A ADMIXTURE
    C CHEMOTHERAPY
    H HYPERAL
    P PIGGYBACK
    S SYRINGE
Enter a code from the list above.
Select one of the following:
    A ADMIXTURE
    C CHEMOTHERAPY
    H HYPERAL
    P PIGGYBACK
    S SYRINGE
    SYRINGE IIV TYPE: PIGGYBACK
    **AUTO STOP 7D**
This patient is already receiving an order for the following drug in the same
class as AMPICILLIN INJ 2GM:

    AMPICILLIN CAP          C 09/07 09/21 A
    Give: 500MG PO QID

Do you wish to continue entering this order? NO// Y
Select ADDITIVE: AMPICILLIN// <Enter>
ADDITIVE: AMPICILLIN// <Enter>
Restriction/Guideline(s) exist. Display? : (N/D): No// D
Dispense Drug Text:
    Refer to PBM/MAP PUD treatment guidelines
    RESTRICTED TO NEUROLOGY
(The units of strength for this additive are in GM)
Strength: 1 GM
```

```

Select ADDITIVE: <Enter>
Select SOLUTION: 0.9
  1  0.9% NACL          500 ML
  2  0.9% NACL          100 ML
  3  0.9% NACL          50 ML
  4  0.9% NaCl         250 ML
      BT
CHOOSE 1-4: 2  0.9% NACL          100 ML
INFUSION RATE: <Enter>

```

-----report continues-----



Example: Finish an Order Without a Duration (continued)

```

PENDING IV (ROUTINE)          Sep 07, 2000 16:23:46          Page: 1 of 2
PSJPATIENT1,ONE              Ward: 1 EAST
  PID: 000-00-0001            Room-Bed: B-12          Ht (cm) : _____ (_____)
  DOB: 08/18/20 (80)          Wt (kg) : _____ (_____)

(1) Additives:                                Type: PIGGYBACK <DIN>
    AMPICILLIN 1 GM
(2) Solutions:
    0.9% NACL 100 ML
    Duration:                                (4) Start: 09/07/2000 15:00
(3) Infusion Rate:
                                         REQUESTED START: 09/07/2000 09:00
* (5) Med Route: IVPB                                     (6) Stop: 09/14/2000 16:54
* (7) Schedule: QID                                       Last Fill: *****
(8) Admin Times: 01-09-15-20                             Quantity: 0
* (9) Provider: PSJPROVIDER,ONE [es]                     Cum. Doses:
* (10) Orderable Item: AMPICILLIN INJ
    Instructions:
(11) Other Print: THIS IS AN INPATIENT IV EXAMPLE.
+ Enter ?? for more actions
AC Accept          ED Edit
Select Item(s): Next Screen// AC

Orderable Item: AMPICILLIN INJ
Give: IVPB QID

0001 1 EAST 09/07/00
PSJPATIENT1,ONE B-12

AMPICILLIN 1 GM
0.9% NACL 100 ML

Dose due at: _____

THIS IS AN INPATIENT IV EXAMPLE
QID
01-09-15-20
M2***
Fld by:           Chkd by:
1[1]

Start date: SEP 7,2000 15:00   Stop date: SEP 14,2000 16:54

Is this O.K.? YES// <Enter>

```

The Requested Start date/time value is added to the order view to indicate the date/time requested by the provider to start the order. This date/time is the CPRS expected first dose when no duration is received from CPRS.

Example: Finish an Order With a Duration

```

PENDING IV (ROUTINE)                Sep 07, 2000 16:11:42                Page: 1 of 2
PSJPATIENT1,ONE                    Ward: 1 EAST
  PID: 000-00-0001                  Room-Bed: B-12                    Ht (cm): _____ (_____)
  DOB: 08/18/20 (80)                Wt (kg): _____ (_____)

(1) Additives:                                Type:
(2) Solutions:                                Duration: 10 DAYS                    (4) Start: *****
(3) Infusion Rate:
* (5) Med Route: IVPB                                (6) Stop: *****
* (7) Schedule: QID                                Last Fill: *****
(8) Admin Times: 01-09-15-20                    Quantity: 0
* (9) Provider: PSJPROVIDER,ONE [es]            Cum. Doses:
* (10) Orderable Item: AMPICILLIN INJ
      Instructions:
(11) Other Print:
      Provider Comments: THIS IS AN INPATIENT IV EXAMPLE.
+      Enter ?? for more actions
DC Discontinue                                FL (Flag)
ED Edit                                        FN Finish
Select Item(s): Next Screen// FN Finish
COMPLETE THIS ORDER AS IV OR UNIT DOSE? IV// IV
Copy the Provider Comments into Other Print Info? Yes// YES
IV TYPE: PB
CHOOSE FROM:
      A ADMIXTURE
      C CHEMOTHERAPY
      H HYPERAL
      P PIGGYBACK
      S SYRINGE
Enter a code from the list above.

      Select one of the following:
      A ADMIXTURE
      C CHEMOTHERAPY
      H HYPERAL
      P PIGGYBACK
      S SYRINGE

IV TYPE: PIGGYBACK
      **AUTO STOP 7D**

This patient is already receiving an order for the following drug in the same
class as AMPICILLIN INJ 2GM:

      AMPICILLIN CAP                                C 09/07 09/21 A
      Give: 500MG PO QID

Do you wish to continue entering this order? NO// Y
Select ADDITIVE: AMPICILLIN// <Enter>
ADDITIVE: AMPICILLIN// <Enter>
Restriction/Guideline(s) exist. Display? : (N/D): No// D

Dispense Drug Text:

      Refer to PBM/MAP PUD treatment guidelines
      RESTRICTED TO NEUROLOGY
      (The units of strength for this additive are in GM)
      Strength: 1 GM
      Select ADDITIVE: <Enter>

```

```

Select SOLUTION: 0.9
  1  0.9% NACL          500 ML
  2  0.9% NACL          100 ML
  3  0.9% NACL          50 ML
  4  0.9% NaCl         250 ML
      BT
CHOOSE 1-4: 2  0.9% NACL          100 ML
INFUSION RATE: <Enter>

PENDING IV (ROUTINE)          Sep 07, 2000 16:23:46          Page: 1 of 2
PSJPATIENT1,ONE              Ward: 1 EAST
PID: 000-00-0001             Room-Bed: B-12          Ht (cm): _____ (_____)
DOB: 08/18/20 (80)           Wt (kg): _____ (_____)

(1) Additives:                                Type: PIGGYBACK      <DIN>
    AMPICILLIN 1 GM
(2) Solutions:
    0.9% NACL 100 ML
    Duration: 10 DAYS
(3) Infusion Rate:
* (5) Med Route: IVPB
(4) Start: 09/07/2000 09:00
    Calc Start: 09/07/2000 08:13
(6) Stop: 09/17/2000 09:00
    Calc Stop: 09/22/2000 24:00
* (7) Schedule: QID
    Last Fill: *****
(8) Admin Times: 01-09-15-20
    Quantity: 0
* (9) Provider: PSJPROVIDER,ONE [es]
    Cum. Doses:
* (10) Orderable Item: AMPICILLIN INJ
    Instructions:
(11) Other Print: THIS IS AN INPATIENT IV EXAMPLE.
+ Enter ?? for more actions
AC Accept          ED Edit
Select Item(s): Next Screen// AC

```

-----report continues-----



Example: Finish an Order With a Duration (continued)

```

Orderable Item: AMPICILLIN INJ
Give: IVPB QID

0001 1 EAST 09/07/00
PSJPATIENT1,ONE B-12

AMPICILLIN 1 GM
0.9% NACL 100 ML

Dose due at: _____

THIS IS AN INPATIENT IV EXAMPLE
QID
01-09-15-20
M2***
Fld by: _____ Chkd by: _____
1[1]

Start date: 09/07/2000 09:00 Stop date: 09/17/2000 09:00

Is this O.K.? YES// <Enter>

```

The calculated Start Date/Time (Calc Start) and the Stop Date/Time (Calc Stop) will display according to how the following Inpatient Ward Parameters settings are configured:

- DAYS UNTIL STOP DATE/TIME:
- DAYS UNTIL STOP FOR ONE-TIME:
- SAME STOP DATE ON ALL ORDERS:
- TIME OF DAY THAT ORDERS STOP:
- DEFAULT START DATE CALCULATION:

The CPRS Expected First Dose will display as the default Start Date/Time when a duration is received from CPRS.

The default Stop Date/Time is derived from the CPRS Expected First Dose and the duration, when the duration is available from CPRS.



Note: When an order is placed through CPRS prior to the next administration time for today, the Expected First Dose will be today at the next administration time. However, if the order is placed after the last administration time of the schedule for today, the Expected First Dose will be at the next administration time. The Expected First Dose displayed in CPRS displays as Requested Start Date/Time on the order view if no duration is received from CPRS. The Expected First Dose displays as the default Start Date/Time on the order view when a duration is received. Expected First Dose does not display for On-call or One-time orders.

If the Dispense Drug or Orderable Item has a non-formulary status, this status will be displayed on the screen as “*N/F*” beside the Dispense Drug or Orderable Item.

The user, when finishing an order that contains an IV Additive and there is more than one dispense drug matched to the selected Orderable Item, they must select the correct item for the order from the displayed list. If there are multiple additives contained on the single order, the Pharmacist must select each of the correct additives for the order. (See example below) The lists of additive will be displayed as follows:

Print Name Additive Strength: Strength

When there are Multiple IV Additive Orderable Items, each IV additive must be selected from the displayed list.

Example: Multiple items for an Orderable Item

```
DC      Discontinue      FL      (Flag)
ED      Edit              FN      Finish

Select Item(s): Next Screen// FN      Finish
IV TYPE: PIGGYBACK//

More than one dispense IV Additives are available for:
Orderable Item: PIPERACILLIN/TAZOBACTAM INJ
Ordered Dose: 5 GM

Please select the correct dispense IV Additive below for this order:

1 PIPERACILLIN/TAZOBACTAM      Additive Strength: 3.375 GM
2 PIPERACILLIN/TAZOBACTAM      Additive Strength: 2.25 GM
3 PIPERACILLIN/TAZOBACTAM      Additive Strength: 4.5 GM

Select (1 - 3): 3 PIPERACILLIN/TAZOBACTAM      Additive Strength: 4.5 GM
```

Example: Multiple IV Additives for same order with multiple items attached to the Orderable Item

```
More than one dispense IV Additives are available for:

Orderable Item: PIPERACILLIN/TAZOBACTAM
Ordered Dose: 5 GM

Please select the correct dispense IV Additive below for this order:
1 PIPERACILLIN/TAZOBACTAM      Additive Strength: 3.375
2 PIPERACILLIN/TAZOBACTAM      Additive Strength: 2.25
3 PIPERACILLIN/TAZOBACTAM      Additive Strength: 4.5

Select (1 - 3): 2

More than one dispense IV Additives are available for:
Orderable Item: CIPROFLOXACIN
Ordered Dose: 2 MG

Please select the correct dispense IV Additive below for this order:
1 CIPROFLOXACIN 200MG          Additive Strength: N/A
2 CIPROFLOXACIN 400MG          Additive Strength: N/A
Select (1 - 2): 2

More than one dispense IV Additives are available for:
Orderable Item: CEFAZOLIN
Ordered Dose: 2 GM

Please select the correct dispense IV Additive below for this order:
1 CEFAZOLIN                    Additive Strength: N/A
2 CEFAZ2                        Additive Strength: N/A
3 CEFAZ3                        Additive Strength: N/A
Select (1 - 3): 1
```

A prompt is added to the finishing process, “COMPLETE THIS ORDER AS IV OR UNIT DOSE?” to determine if the user should complete the order as either an IV or Unit Dose order. The prompt will be displayed only if the user selected the *Inpatient Order Entry* option to finish the order and the order was placed in CPRS using the Inpatient Meds dialog. Also, the prompt will appear only if the correct combination of the entry in the IV FLAG in the MEDICATION ROUTES file and the entry in the APPLICATION PACKAGES’ USE field in the DRUG file for the order’s Dispense Drug are found.

The following table will help explain the different scenarios for orders placed in CPRS using the Inpatient Meds dialog:

| IV FLAG in the MEDICATION ROUTES file | Dispense Drug's Application Use | Which Order View screen will be displayed to the user | Special Processing |
|---------------------------------------|---------------------------------|---|--|
| IV | IV | IV | None |
| IV | Unit Dose | Unit Dose | Prompt user to finish order as IV or Unit Dose |
| IV | IV and Unit Dose | IV | Prompt user to finish order as IV or Unit Dose |
| Non-IV | IV | IV | Prompt user to finish order as IV or Unit Dose |
| Non-IV | Unit Dose | Unit Dose | None |
| Non-IV | IV and Unit Dose | Unit Dose | Prompt user to finish order as IV or Unit Dose |

4.6.8 Flag



The flag action is available to alert the users that the order is incomplete or needs clarification. Flagging is applied to any orders that need more information or corrections from the clinician. When the user flags the order, an alert is sent to the specified user defining the information that is needed to process the medication order. The specified user can send a return alert with the needed information. The Activity Log will record the flagging activities including acknowledgement that the alert was viewed. The flag action can be performed in either CPRS or in Inpatient Medications.

When a flagged order appears on the order view, the order number on the right hand side will be highlighted using reverse video. The nurse, or any user without the PSJ RPHARM key, does not have the ability to flag or un-flag orders; however, they can view the flagged or un-flagged comments via the Activity Log.

Example: Flagged Order

```

Inpatient Order Entry      Feb 11, 2011@13:05:49      Page: 1 of 1
-----
ZZZRETFIVEEIGHTYSIX, PATIENT      Ward: ALB-PRR      A
PID: 000-00-1234      Room-Bed:      Ht(cm): 187.96 (05/03/10)
DOB: 04/07/70 (40)      Att: Psj,Test      Wt(kg): 74.00 (05/03/10)
Sex: MALE      TrSp: Medical Observati      Admitted: 07/02/97
Dx: SICK      Last transferred: *****
CrCL: <Not Found> (CREAT: Not Found)      BSA (m2): 1.97
-----
- - - - - P E N D I N G - - - - -
1  ACETAZOLAMIDE INJ      ? ***** ***** P
   Give: 500MG/1VIAL IV NOW
2  ACETAZOLAMIDE INJ      ? ***** ***** P
   Give: 500MG/1VIAL IV Q12H

```

```

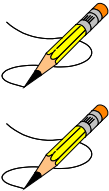
3      VINCRISTINE INJ          ? ***** ***** P
      Give: 3MG/3ML IVP BID

-----Enter ?? for more actions-----
PI Patient Information          NO New Order Entry
PU Patient Record Update       CM New Clinic Medication Entry
SO Select Order
Select Action: Quit// SO      Select Order

```

4.6.9 Speed Actions

From the list of orders in the patient’s profile, the nurse can select one or more of the orders on which to take action. The nurse can quickly discontinue this patient’s orders by selecting Speed Discontinue, or quickly renewing an order by selecting Speed Renew Other “quick” selections include Speed Finish and Speed Verify.



4.7 Discontinue All of a Patient’s Orders[PSJU CA]

The *Discontinue All of a Patient’s Orders* option allows a nurse to discontinue all of a patient’s orders. Also, it allows a ward clerk to mark all of a patient’s orders for discontinuation. If the ALLOW USER TO D/C ORDERS parameter is turned on to take action on active orders, then the ward clerk will also be able to discontinue orders. This ALLOW USER TO D/C ORDERS parameter is set using the *Inpatient User Parameter’s Edit* option under the *PARAmeter’s Edit Menu* option, which is under the *Supervisor’s Menu* option.

This option is then used to discontinue the selected orders. If a non-verified or pending order is discontinued, it is deleted completely from the system.

4.8 Hold All of a Patient’s Orders [PSJU HOLD ALL]

The *Hold All of a Patient’s Orders* option allows a nurse to place all of a patient’s active orders on hold in order to temporarily stop the medication from being dispensed, or take all of the patient’s orders off of hold to restart the dispensing of the medication.

The option will take no action on individual orders that it finds already on hold. When this option is used to put all orders on hold, the system will print labels for each medication order newly put on hold, indicating on the label that the medication is on hold. Also, the profile will notify the user that the patient’s orders have been placed on hold; the letter **H** will be placed in the Status/Info column on the profile for each formerly active order.

When the option is used to take all orders off of hold, the system will reprint labels for the medication orders that were taken off hold and indicate on the label that the medication is off hold. Again, this option will take no action on individual orders that it finds were not on hold. The profile will display to the user that the patient's orders have been taken off hold.

Example 1: Hold All of a Patient's Orders

```
Select Unit Dose Medications Option: Hold All of a Patient's Orders
Select PATIENT: PSJPATIENT2,TWO      000-00-0002   02/22/42   A-6
DO YOU WANT TO PLACE THIS PATIENT'S ORDERS ON HOLD? Yes// <Enter> (Yes)
HOLD REASON: SURGERY SCHEDULED FOR 9:00AM
...a few moments, please.....DONE!
```

To take the orders off of hold, choose this same option and the following will be displayed:

Example 2: Take All of a Patient's Orders Off of Hold

```
Select Unit Dose Medications Option: Hold All of a Patient's Orders
Select PATIENT: PSJPATIENT2,TWO      000-00-0002   02/22/42   A-6
THIS PATIENT'S ORDERS ARE ON HOLD.
DO YOU WANT TO TAKE THIS PATIENT'S ORDERS OFF OF HOLD? Yes// <Enter> (Yes).....
.....DONE!
.....DONE!
```



Note: Individual orders can be placed on hold or taken off of hold through the *Order Entry* and *Non-Verified/Pending Orders* options.

4.9 Inpatient Profile [PSJ PR]

The *Inpatient Profile* option allows the user to view the Unit Dose and IV orders of a patient simultaneously. The user can conduct the Inpatient Profile search by ward group, ward, or patient. If the selection to sort is by ward, the administration teams may be specified. The default for the administration team is ALL and multiple teams may be entered. If selecting by ward or ward group, the profile may be sorted by patient name or room-bed. To print Outpatients, the user should select the ward group ^OTHER or print by Patient.

When the user accesses this option from the Unit Dose Medications module for the first time within a session, a prompt is displayed to select the IV room. When only one active IV room exists, it will be selected automatically. The user is then given the label and report devices defined for the IV room chosen. If no devices have been defined, the user will be given the opportunity to choose them. If this option is exited and then re-entered within the same session, the current label and report devices are shown.

In the following description, viewing a profile by patient is discussed; however, ward and ward group are handled similarly.

After the user selects the patient for whom a profile view is needed, the length of profile is chosen. The user can choose to view a long or short profile or, if the user decides not to view a profile for the chosen patient, “NO Profile” can be selected. When **NO Profile** is chosen, the system will return to the “Select PATIENT:” prompt and the user may choose a new patient.

Once the length of profile is chosen, the user can print the patient profile (by accepting the default or typing **P** at the “SHOW PROFILE only, EXPANDED VIEWS only, or BOTH: Profile/” prompt), an expanded view of the patient profile (by typing **E**), or both (by typing **B**). The expanded view lists the details of each order for the patient. The activity logs of the orders can also be printed when the expanded view or both, the expanded view and profile, are chosen.

The advantage of this option is that by viewing the combined Unit Dose/IV profile of a patient, the user can quickly determine if any corrections or modifications need to be made for existing or future orders based on Unit Dose or IV medications already being received by the patient. Sometimes the nurse must revise a prospective order for a patient based on the Unit Dose or IV medications already prescribed for the patient.



Example: Inpatient Profile

```
Select Unit Dose Medications Option: IPF Inpatient Profile
Select by WARD GROUP (G), WARD (W), or PATIENT (P): Patient <Enter>
Select PATIENT: PSJPATIENT11,ONE 000-55-3421 08/18/20 1 EAST
Select another PATIENT: <Enter>
SHORT, LONG, or NO Profile? SHORT// <Enter> SHORT
Show PROFILE only, EXPANDED VIEWS only, or BOTH: PROFILE// BOTH
Show SHORT, LONG, or NO activity log? NO// SHORT
Select PRINT DEVICE: 0;80 NT/Cache virtual TELNET terminal

Inpatient Order Entry Jun 12, 2006@23:12:54 Page: 1 of 1
PSJPATIENT11, ONE Ward: 2ASM
PID: 000-55-3421 Room-Bed: 102-1 Ht (cm): _____ (_____)
DOB: 12/02/23 (82) Wt (kg): 100.00 (06/24/03)
Sex: MALE Admitted: 12/11/01
Dx: Breathing Difficulty Last transferred: 12/11/01
CrCL: <Not Found> (CREAT: Not Found) BSA (m2): _____

- - - - - A C T I V E - - - - -
1 CEFAZOLIN 1 GM C 06/12/2006 06/22/2006 H
in 5% DEXTROSE 50 ML Q8H
2 CIMETIDINE TAB C 06/12/2006 07/12/2006 A
Give: 300MG PO BID
3 FUROSEMIDE TAB C 06/01/2006 06/15/2006 HP
Give: 40MG PO QAM
- - - - - N O N - V E R I F I E D - - - - -
4 CAPTOPRIL TAB C 06/14/2006 06/28/2006 N
Give: 25MG PO BID
```


- Action taken through IV Menu to finish a medication order placed through CPRS will initiate order checks (allergy, drug-drug interaction, and duplicate therapy) against existing medication orders.
- Action taken through Inpatient Medications to renew a medication order will initiate order checks (allergy drug-drug interaction, and duplicate therapy) against existing medication orders.
- Action taken through IV Menu to renew a medication order will initiate order checks (allergy, drug-drug interaction, and duplicate therapy against existing medication orders.
- Action taken through IV Menu to copy a medication order, thereby creating a new order.

The following are the different items used for the order checks:

- Checks each Dispense Drug within the Unit Dose order for allergy/adverse drug reactions
- Checks each Dispense Drug within the Unit Dose order against existing orders for drug-drug interaction and duplicate therapy.
- Checks each additive within an IV order for drug-drug interaction, and duplicate therapy against solutions or other additives within the order.
- Checks each IV order solution for allergy/adverse reactions.
- Checks each IV order solution for drug-drug interaction against other solutions or additives within the order if they are defined as a PreMix
- Checks each IV order additive for allergy/adverse reaction
- Checks each IV order additive for drug-drug interaction, and duplicate therapy against existing orders for the patient.
- Checks each IV order solution for drug-drug interaction against existing orders for the patient.

Override capabilities are provided based on the severity of the order check, if appropriate.

Order Checks will be displayed/processed in the following order:

- System Errors
- Allergy/ADR (local & remote)
- CPRS checks generated backdoor (3 new checks)
- Drug Level Errors
- Inpatient Critical Drug Interaction
- Local & Remote Outpatient Critical Drug Interactions
- Inpatient Significant Drug Interactions
- Local & Remote Outpatient Significant Drug Interactions
- Order Level Error Messages – Drug Interactions
- Duplicate Therapy –Inpatient, Local & Remote Outpatient
- Order Level Error Messages – Duplicate Therapy

These checks will be performed at the Dispense Drug level. Order checks for IV orders will use Dispense Drugs linked to each additive/solution in the IV order. All pending, non-verified, active and renewed Inpatient orders, active Outpatient orders, and active Non-Veterans Affairs (VA) Meds documented in CPRS will be included in the check. In addition, with the release of OR*3*238, order checks will be available using data from the Health Data Repository Historical (HDR-Hx) and the Health Data Repository Interim Messaging Solution (HDR-IMS). This will contain both Outpatient orders from other VAMCs as well as from Department of Defense (DoD) facilities, if available. Any remote Outpatient order that has been expired for 30 days or less will be included in the list of medications to be checked.

There is a slight difference in the display of local Outpatient orders compared with remote Outpatient orders. Below are examples of the two displays:

Example: Local Outpatient Order Display

```
Duplicate Drug in Local Rx:

      Rx #: 2608
      Drug: ASPIRIN 81MG EC TAB
      SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
      QTY: 30           Refills remaining: 11
      Provider: PSOPROVIDER, TEN           Issued: 03/24/08
      Status: Active           Last filled on: 03/24/08
      Processing Status: Released locally on 3/24/08@08:55:32 (Window)
                                   Days Supply: 30
```

Example: Remote Outpatient Order Display

```
Duplicate Drug in Remote Rx:

      LOCATION NAME: <NAME OF FACILITY>
      Rx #: 2608
      Drug: ASPIRIN 81MG EC TAB
      SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
      QTY: 30
      Provider: PSOPROVIDER, TEN           Issued: 03/24/08
      Status: Active           Last filled on: 03/24/08
                                   Days Supply: 30
```

In the Remote Outpatient Order Display example above, notice the name of the remote location has been added. In addition, the number of refills is not available.

If the order is entered by the Orderable Item only, these checks will be performed at the time the Dispense Drug(s) is specified. The checks performed include:

Duplicate Therapy - Each First Databank duplicate therapy class is assigned a duplication allowance value. The duplication allowance value indicates how many duplications are considered appropriate before a warning is generated. If the number of duplicate therapy matches (number of drug pairs) exceeds the duplication allowance value, a warning will be displayed.

In the example below, the patient is already receiving orders containing a Dispense Drug in the same therapy class as one of the Dispense Drugs in the new order. The duplication allowance for the Antihyperlipidemics HMGCo-A Reductase Inhibitors (Statins) therapy class is zero. The new order for Simvastatin 20mg tab and the existing outpatient pharmacy

order for Simvastatin 10mg tab are both in the same therapy class resulting in one duplication match. Since one duplication match is greater than zero, a duplicate therapy warning is displayed.

Inpatient duplicate orders of this kind are displayed in a numbered list. The user is first asked whether or not to continue the current order. If the user selects to continue the order then the user is prompted with which, if any, numbered Inpatient duplicate orders to discontinue. The user may enter a range of numbers from the numbered list of duplicate orders or bypass the prompt by selecting <Enter> and continue with the order. Entry of orders with duplicate drugs of the same class will be allowed.

```

Inpatient Order Entry      Mar 16, 2011@12:10:42      Page: 1 of 2
BCMA,EIGHTEEN-PATIENT    Ward: 7A GEN              A
PID: 666-33-0018         Room-Bed:                Ht(cm): 175.26 (12/15/08)
DOB: 04/07/35 (75)      Att: Psj,Test            Wt(kg): 100.00 (12/15/08)
Sex: FEMALE              TrSp: Medical Observati  Admitted: 01/31/02
Dx: UPSET                Last transferred: 06/04/10
CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12)  BSA (m2): 2.21
-----
- - - - - N O N - V E R I F I E D C O M P L E X - - - - -
  1  LITHIUM TAB,SA              C 10/13 10/15 N
      Give: 450MG PO QID
      LITHIUM TAB,SA              C 10/13 10/15 N
      Give: 10000MG PO Q4H
  2  RILUZOLE TAB                C 10/13 10/15 N
      Give: 50MG PO BID
+-----Enter ?? for more actions-----
PI Patient Information          NO New Order Entry
PU Patient Record Update       CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen// no New Order Entry

Select DRUG: simv
Lookup: DRUG  GENERIC NAME
  1  SIMVASTATIN 10MG TAB        CV350
  2  SIMVASTATIN 20MG TAB        CV350
  3  SIMVASTATIN 40MG TAB        CV350
  4  SIMVASTATIN 80MG TAB        CV350
CHOOSE 1-4: 2 SIMVASTATIN 20MG TAB  CV350  N/F
Restriction/Guideline(s) exist. Display? : (N/O): No// NO

```

```

Enter RETURN to continue or '^' to exit:

Now doing allergy checks. Please wait...

Now processing Clinical Reminder Order Checks. Please wait ...

Now Processing Enhanced Order Checks! Please wait...

=====
This patient is already receiving the following INPATIENT and/or OUTPATIENT
order(s) for a drug in the same therapeutic class(es) as SIMVASTATIN 20MG
TAB:

Local Rx #501820A (ACTIVE) for SIMVASTATIN 10MG TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY EVENING
Processing Status: Not released locally (Window)

Class(es) Involved in Therapeutic Duplication(s): Antihyperlipidemics
HMGCo-A Reductase Inhibitors (Statins)
=====

Press Return to continue...

```


Available Dosage(s)

- 1. 20MG
- 2. 40MG
- 3. 60MG

Select from list of Available Dosages or Enter Free Text Dose: 2 40MG

You entered 40MG is this correct? Yes// YES
 MED ROUTE: ORAL (BY MOUTH)// PO
 SCHEDULE: QPM// 2100
 SCHEDULE TYPE: CONTINUOUS// CONTINUOUS
 ADMIN TIMES: 2100//
 SPECIAL INSTRUCTIONS:
 START DATE/TIME: MAR 16,2011@12:10// MAR 16,2011@12:10
 STOP DATE/TIME: MAR 18,2011@24:00// MAR 18,2011@24:00
 Expected First Dose: MAR 16,2011@21:00
 PROVIDER: PHARMACIST,SEVENTEEN//

| | | | |
|------------------------|-----------------------|----------|-------------------|
| NON-VERIFIED UNIT DOSE | Mar 16, 2011@12:10:15 | Page: | 1 of 2 |
| BCMA,EIGHTEEN-PATIENT | Ward: 7A GEN | | A |
| PID: 666-33-0018 | Room-Bed: | Ht (cm): | 175.26 (12/15/08) |
| DOB: 04/07/35 (75) | Att: Psj,Test | Wt (kg): | 100.00 (12/15/08) |

- (1) Orderable Item: SIMVASTATIN TAB
- Instructions:
- (2) Dosage Ordered: 40MG
- Duration: (3) Start: 03/16/11 12:10
- (4) Med Route: ORAL (BY MOUTH) (5) Stop: 03/18/11 24:00
- (6) Schedule Type: CONTINUOUS
- (8) Schedule: QPM
- (9) Admin Times: 2100
- (10) Provider: PHARMACIST,SEVENTEEN
- (11) Special Instructions:
- (12) Dispense Drug U/D Inactive Date
- SIMVASTATIN 20MG TAB 2

+-----Enter ?? for more actions-----

ED Edit AC ACCEPT
 Select Item(s): Next Screen// ac ACCEPT
 NATURE OF ORDER: WRITTEN// W

...transcribing this non-verified order....

| | | | |
|------------------------|-----------------------|----------|-------------------|
| NON-VERIFIED UNIT DOSE | Mar 16, 2011@12:10:24 | Page: | 1 of 2 |
| BCMA,EIGHTEEN-PATIENT | Ward: 7A GEN | | A |
| PID: 666-33-0018 | Room-Bed: | Ht (cm): | 175.26 (12/15/08) |
| DOB: 04/07/35 (75) | Att: Psj,Test | Wt (kg): | 100.00 (12/15/08) |

- * (1) Orderable Item: SIMVASTATIN TAB
- Instructions:
- * (2) Dosage Ordered: 40MG
- Duration: (3) Start: 03/16/11 12:10
- * (4) Med Route: ORAL (BY MOUTH) (5) Stop: 03/18/11 24:00
- (6) Schedule Type: CONTINUOUS
- * (8) Schedule: QPM
- (9) Admin Times: 2100
- SIMVASTATIN 20MG TAB 2

+-----Enter ?? for more actions-----

DC Discontinue ED Edit AL Activity Logs
 HD (Hold) RN (Renew)
 FL Flag VF Verify
 Select Item(s): Next Screen// vf Verify
 ...a few moments, please.....

Pre-Exchange DOSES:

ORDER VERIFIED.

Enter RETURN to continue or '^' to exit:

- **Drug-Drug Interactions** - Drug-drug interactions warnings will be displayed for critical or significant drug-drug interactions. If the Dispense Drug selected is identified as having an interaction of this level with one of the drugs the patient is already receiving, details of the order the new drug interacts with will be displayed.



Example: Drug-Drug Interactions Display

```
Inpatient Order Entry      Mar 16, 2011@12:04:33      Page: 1 of 2
BCMA,EIGHTEEN-PATIENT      Ward: 7A GEN      A
PID: 666-33-0018      Room-Bed:      Ht (cm): 175.26 (12/15/08)
DOB: 04/07/35 (75)      Wt (kg): 100.00 (12/15/08)
Sex: FEMALE      Admitted: 01/31/02
Dx: UPSET      Last transferred: 06/04/10
CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12)      BSA (m2): 2.21
-----
- - - - - N O N - V E R I F I E D C O M P L E X - - - - -
1  LITHIUM TAB,SA      C 10/13/2011 10/15/2011 N
   Give: 450MG PO QID
   LITHIUM TAB,SA      C 10/13/2011 10/15/2011 N
   Give: 10000MG PO Q4H
2  RILUZOLE TAB      C 10/13/2011 10/15/2011 N
   Give: 50MG PO BID
   RILUZOLE TAB      C 10/15/2011 10/16/2011 N
   Give: 10000MG PO Q4H
- - - - - P E N D I N G C O M P L E X - - - - -
3  HALOPERIDOL TAB      ? ***** ***** P
   Give: 40MG PO BID
-----Enter ?? for more actions-----
PI Patient Information      NO New Order Entry
PU Patient Record Update      CM New Clinic Medication Entry
SO Select Order
Select Action: Quit// no New Order Entry

Select DRUG: indinavi
Lookup: DRUG GENERIC NAME
INDINAVIR SULFATE 400MG CAP      AM800
...OK? Yes// (Yes)

Now doing allergy checks. Please wait...

Now processing Clinical Reminder Order Checks. Please wait ...

Now Processing Enhanced Order Checks! Please wait...

Press Return to continue...

=====
This patient is receiving the following order(s) that have a CRITICAL Drug
Interaction with INDINAVIR SULFATE 400MG CAP:
```

Local Rx #501820A (ACTIVE) for SIMVASTATIN 10MG TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY EVENING
Processing Status: Not released locally (Window)

Concurrent administration may result in elevated HMG levels, which may increase the risk of myopathy, including rhabdomyolysis. (1-16)

=====
Display Professional Interaction Monograph(s)? NO//

Do you want to Continue with INDINAVIR SULFATE 400MG CAP? NO// y YES

Now creating Pharmacy Intervention
For INDINAVIR SULFATE 400MG CAP

PROVIDER: PSJPROVIDER,ONE TP

RECOMMENDATION: ?

Answer with APSP INTERVENTION RECOMMENDATION, or NUMBER

Choose from:

- 1 CHANGE DRUG
- 2 CHANGE FORM OR ROUTE OF ADMINISTRATION
- 3 ORDER LAB TEST
- 4 ORDER SERUM DRUG LEVEL
- 5 CHANGE DOSE
- 6 START OR DISCONTINUE A DRUG
- 7 CHANGE DOSING INTERVAL
- 8 NO CHANGE
- 9 OTHER

RECOMMENDATION: 9 OTHER

OTHER FOR RECOMMENDATION:

No existing text

Edit? NO//

See 'Pharmacy Intervention Menu' if you want to delete this intervention or for more options.

Would you like to edit this intervention? N// O

Available Dosage(s)

- 1. 400MG
- 2. 800MG

Select from list of Available Dosages or Enter Free Text Dose: 1 400MG

You entered 400MG is this correct? Yes// YES

MED ROUTE: ORAL (BY MOUTH)// PO

SCHEDULE: QDAY//

- 1 QDAY 0900
- 2 QDAY-DIG 1300
- 3 QDAY-WARF 1300

CHOOSE 1-3: 1 0900

SCHEDULE TYPE: CONTINUOUS// CONTINUOUS

ADMIN TIMES: 0900//

SPECIAL INSTRUCTIONS:

START DATE/TIME: 03/16/2011@12:08// 03/16/2011@12:08

STOP DATE/TIME: 03/17/2011@24:00// 03/17/2011@24:00

Expected First Dose: 03/17/2011@09:00

PROVIDER: PHARMACIST,SEVENTEEN// 145

NON-VERIFIED UNIT DOSE

Mar 16, 2011@12:07:46

Page: 1 of 2

BCMA,EIGHTEEN-PATIENT

Ward: 7A GEN

A

PID: 666-33-0018

Room-Bed:

Ht (cm): 175.26 (12/15/08)

DOB: 04/07/35 (75)

Wt (kg): 100.00 (12/15/08)

(1)Orderable Item: INDINAVIR CAP,ORAL

Instructions:

```

(2) Dosage Ordered: 400MG
    Duration:
(4) Med Route: ORAL (BY MOUTH)
(6) Schedule Type: CONTINUOUS
(8) Schedule: QDAY
(9) Admin Times: 0900
(10) Provider: PHARMACIST, SEVENTEEN
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
    INDINAVIR SULFATE 400MG CAP      1

+-----Enter ?? for more actions-----+
ED Edit                      AC ACCEPT
Select Item(s): Next Screen// ac ACCEPT

Press Return to continue...

NATURE OF ORDER: WRITTEN//      W

...transcribing this non-verified order....

NON-VERIFIED UNIT DOSE      Mar 16, 2011@12:08:04      Page: 1 of 2
BCMA,EIGHTEEN-PATIENT      Ward: 7A GEN              A
PID: 666-33-0018           Room-Bed:                Ht (cm): 175.26 (12/15/08)
DOB: 04/07/35 (75)        Wt (kg): 100.00 (12/15/08)
-----+
* (1) Orderable Item: INDINAVIR CAP, ORAL
    Instructions:
* (2) Dosage Ordered: 400MG
    Duration:
(3) Start: 03/16/2011 12:08
* (4) Med Route: ORAL (BY MOUTH)
(5) Stop: 03/17/2011 24:00

(6) Schedule Type: CONTINUOUS
* (8) Schedule: QDAY
(9) Admin Times: 0900
* (10) Provider: PHARMACIST, SEVENTEEN [w]
(11) Special Instructions:

(12) Dispense Drug          U/D          Inactive Date
    INDINAVIR SULFATE 400MG CAP      1

+-----Enter ?? for more actions-----+
DC Discontinue              ED Edit                      AL Activity Logs
HD (Hold)                   RN (Renew)
FL Flag                       VF Verify
Select Item(s): Next Screen// NEXT SCREEN

```

- Allergy Order Checks** – This section describes the Allergy Order Checks functionality. Allergy Order Checks appear prior to Clinical Reminder Order Checks.



Note: Severity for an allergy can ONLY be entered for (O)bserved and NOT (H)istorical Allergy/Adverse Reactions and the user MUST HOLD the GMRA-ALLERGY VERIFY key to enter MECHANISM and SEVERITY for Observed types of Allergy/Adverse Reactions.

```

Inpatient Order Entry      Mar 16, 2011@12:04:33      Page: 1 of 2
BCMA,EIGHTEEN-PATIENT      Ward: 7A GEN              A
PID: 666-33-0018           Room-Bed:                Ht (cm): 175.26 (12/15/08)
DOB: 04/07/35 (75)        Wt (kg): 100.00 (12/15/08)
Sex: FEMALE                Admitted: 01/31/02
Dx: UPSET                  Last transferred: 06/04/10
CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12)      BSA (m2): 2.21

```

Allergies - Verified: ACETAMINOPHEN, CODEINE, PROPOFOL
Non-Verified: AMLODIPINE/BENAZEPRIL, LEVOTHYROXINE, SULFA DRUGS
Remote: ACETAMINOPHEN, CODEINE, DIPRIVAN, GUAIFENESIN, PROPOFOL

Adverse Reactions:
Inpatient Narrative:
Outpatient Narrative:

Enter ?? for more actions
DA Detailed Allergy/ADR List IN Intervention Menu
VP View Profile
Select Action: View Profile// View Profile
SHORT, LONG, or NO Profile? SHORT// SHORT

Inpatient Order Entry Mar 16, 2011@12:04:33 Page: 1 of 2
BCMA,EIGHTEEN-PATIENT Ward: 7A GEN A
PID: 666-33-0018 Room-Bed: Ht(cm): 175.26 (12/15/08)
DOB: 04/07/35 (75) Wt(kg): 100.00 (12/15/08)
Sex: FEMALE Admitted: 01/31/02
Dx: UPSET Last transferred: 06/04/10
CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12) BSA (m2): 2.21

----- A C T I V E -----
1 ACETAMINOPHEN TAB C 05/22/2011 06/19/2011 A
Give: 325MG PO Q6H
2 AMLODIPINE/BENAZEPRIL CAP,ORAL C 05/06/2011 06/03/2011 A
Give: 5mg PO AM
3 LEVOTHYROXINE SODIUM TAB C 05/08/2011 06/05/2011 A
Give: 0.025MG PO QAM
----- P E N D I N G -----
4 SULFADIAZINE TAB ? ***** ***** P
Give: 500MG PO AM & AFTERNOON

Enter ?? for more actions
PU Patient Record Update NO New Order Entry
CM New Clinic Medication Entry
Select Action: Quit// SO Select Order
Select ORDERS (1-4): 1

ACTIVE UNIT DOSE Mar 16, 2011@12:04:33 Page: 1 of 2
BCMA,EIGHTEEN-PATIENT Ward: 7A GEN A
PID: 666-33-0018 Room-Bed: Ht(cm): 175.26 (12/15/08)
DOB: 04/07/35 (75) Wt(kg): 100.00 (12/15/08)

* (1) Orderable Item: ACETAMINOPHEN TAB
Instructions:
* (2) Dosage Ordered: 325MG
Duration: * (3) Start: 05/22/2014 12:03
* (4) Med Route: ORAL * (5) Stop: 06/19/2014 24:00

(6) Schedule Type: CONTINUOUS
* (8) Schedule: Q6H
(9) Admin Times: 0600-1200-1800-2359
* (10) Provider: CLERKPEARSON,HOLLY [w]
(11) Special Instructions:

(12) Dispense Drug U/D Inactive Date
ACETAMINOPHEN 325MG TAB UNIT DOSE 1
+ Enter ?? for more actions
DC Discontinue ED Edit AL Activity Logs
HD Hold RN Renew
FL Flag VF (Verify)
Select Item(s): Next Screen// CO CO

NON-VERIFIED UNIT DOSE May 27, 2014@18:10:16 Page: 1 of 2
BCMA,EIGHTEEN-PATIENT Ward: 7A GEN A

PID: 666-33-0018 Room-Bed: Ht (cm): 175.26 (12/15/08)
DOB: 04/07/35 (75) Wt (kg): 100.00 (12/15/08)

(1) Orderable Item: ACETAMINOPHEN TAB
Instructions:

(2) Dosage Ordered: 325MG

Duration:

(3) Start: 05/27/2014 18:10

(4) Med Route: ORAL

(5) Stop: 06/24/2014 24:00

(6) Schedule Type: CONTINUOUS

(8) Schedule: Q6H

(9) Admin Times: 0600-1200-1800-2359

(10) Provider: CLERKPEARSON,HOLLY [w]

(11) Special Instructions:

| (12) Dispense Drug | U/D | Inactive Date |
|-----------------------------------|-----|---------------|
| ACETAMINOPHEN 325MG TAB UNIT DOSE | 1 | |

+ Enter ?? for more actions

ED Edit AC ACCEPT

Select Item(s): Next Screen// AC ACCEPT

A Drug-Allergy Reaction exists for this medication and/or class!

Prospective Drug: ACETAMINOPHEN 325MG TAB UNIT DOSE

Causative Agent: ACETAMINOPHEN (CLE13 TEST LAB - 05/07/14)

Historical/Observed: OBSERVED

Severity: SEVERE

Ingredients: ACETAMINOPHEN

Signs/Symptoms: NAUSEA AND VOMITING

Provider Override Reason: N/A - Order Entered Through VistA

Press Return to continue:

A Drug-Allergy Reaction exists for this medication and/or class!

Prospective Drug: ACETAMINOPHEN 325MG TAB UNIT DOSE

Causative Agent: ACETAMINOPHEN (MARTINSBURG VAMC - 05/13/14)

Historical/Observed: HISTORICAL

Severity: Not Entered

Ingredients: ACETAMINOPHEN

Signs/Symptoms: DIARRHEA

Provider Override Reason: N/A - Order Entered Through VistA

Do you want to Intervene? YES// Y

Enter your Current Signature Code: SIGNATURE VERIFIED

Now creating Pharmacy Intervention
for ACETAMINOPHEN 325MG TAB UNIT DOSE

PROVIDER: DOCTOR, TEST DT 192 4567891 BAY PINES TEST LAB
RECOMMENDATION: 9 OTHER

See 'Pharmacy Intervention Menu' if you want to delete this
intervention or for more options.

Would you like to edit this intervention ? N// O

Now processing Clinical Reminder Order Checks. Please wait ...

Now Processing Enhanced Order Checks! Please wait...

Press Return to continue...

NATURE OF ORDER: WRITTEN// W

...transcribing this non-verified order...

NON-VERIFIED UNIT DOSE May 27, 2014@18:14:45 Page: 1 of 2
BCMA,EIGHTEEN-PATIENT Ward: 7A GEN A

PID: 666-33-0018 Room-Bed: Ht (cm): 175.26 (12/15/08)

```

DOB: 04/07/35 (75)                                Wt(kg): 100.00 (12/15/08)

*(1)Orderable Item: ACETAMINOPHEN TAB
Instructions:
*(2)Dosage Ordered: 325MG
Duration:                                           (3)Start: 05/27/2014  18:14
*(4)    Med Route: ORAL                            (5) Stop: 06/24/2014  24:00

(6) Schedule Type: CONTINUOUS
*(8)    Schedule: Q6H
(9)    Admin Times: 0600-1200-1800-2359
*(10)   Provider: CLERKPEARSON,HOLLY [w]
(11) Special Instructions:

(12) Dispense Drug                                U/D            Inactive Date
ACETAMINOPHEN 325MG TAB UNIT DOSE                1
+          Enter ?? for more actions
DC Discontinue          ED Edit                    AL Activity Logs
HD (Hold)                RN (Renew)
FL Flag                  VF Verify
Select Item(s): Next Screen// VF Verify
...a few moments, please.....

Pre-Exchange DOSES: 2

...updating dispense drug(s)...
...ACETAMINOPHEN 325MG TAB UNIT DOSE            U/D: 1...

ORDER VERIFIED.

Enter RETURN to continue or '^' to exit:
You are finished with the new order.
The following ACTION prompt is for the original order.
Enter RETURN to continue or '^' to exit:

ACTIVE UNIT DOSE          May 27, 2014@18:16:09          Page: 2 of 2
BCMA,EIGHTEEN-PATIENT    Ward: 7A GEN                      A
PID: 666-33-0018        Room-Bed:                          Ht(cm): 175.26 (12/15/08)
DOB: 04/07/35 (75)      Wt(kg): 100.00 (12/15/08)

(7)Self Med: NO

Entry By: PEARSON,HOLLY          Entry Date: 05/22/14  12:04

(13) Comments:

Enter ?? for more actions
DC Discontinue          ED Edit                    AL Activity Logs
HD Hold                  RN Renew
FL Flag                  VF (Verify)
Select Item(s): Quit//    QUIT

Inpatient Order Entry      May 27, 2014@18:16:10          Page: 1 of 2
BCMA,EIGHTEEN-PATIENT    Ward: 7A GEN                      A
PID: 666-33-0018        Room-Bed:                          Ht(cm): 175.26 (12/15/08)
DOB: 04/07/35 (75)      Wt(kg): 100.00 (12/15/08)
Sex: FEMALE              Admitted: 01/31/02
Dx: UPSET                Last transferred: 06/04/10
CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12)  BSA (m2): 2.21

- - - - - A C T I V E - - - - -
1  ACETAMINOPHEN TAB          C 05/22/2011  06/19/2011 A
   Give: 325MG PO Q6H

```

```

2  ACETAMINOPHEN TAB          C  05/27/2011  06/24/2011  A
   Give: 325MG PO Q6H
3  AMLODIPINE/BENAZEPRIL CAP,ORAL  C  05/06/2011  06/03/2011  A
   Give: 5mg PO AM
4  LEVOTHYROXINE SODIUM TAB      C  05/08/2011  06/05/2011  A
   Give: 0.025MG PO QAM
- - - - - P E N D I N G - - - - -
5  SULFADIAZINE TAB            ?  *****      *****      P
+      Enter ?? for more actions
PI Patient Information          NO  New Order Entry
PU Patient Record Update      CM  New Clinic Medication Entry
SO Select Order
Select Action: Next Screen//

```

The following changes have been made to the existing allergy order checks:

1. In Backdoor Pharmacy, the system will require the pharmacist to complete an Intervention if the severity value equals 'Severe' before allowing the pharmacist to continue with the order.



2. For Allergies/Adverse Reactions with Severity of Mild, Moderate, or Not Entered, the system will continue the same as it does today with the option that allows the pharmacist to enter an intervention at their discretion.
3. All allergies are captured and stored with the order, regardless of whether or not an intervention was entered.
4. Remote/HDR allergy Signs/Symptoms are now displayed when doing Allergy/ADR Order Checks.
5. Modified Allergy/ADR Order Check to display actual Station Name in lieu of Local or Remote terminology.
6. For a Severe Allergy the user is required to enter their electronic signature and intervention.



Note: In order to enter the Severity for an allergy in the Allergy Package it must be entered as (O)bserved and not (H)istorical Allergy/Adverse Reaction.

Mild:

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Prospective Drug: ASPIRIN 81MG EC TAB
Causative Agent: ASPIRIN (ALBANY - 07/09/15)

Historical/Observed: OBSERVED
Severity: MILD
Ingredients: ASPIRIN
Signs/Symptoms: ANXIETY, HIVES
Drug Class: CN103 NON-OPIOID ANALGESICS

Provider Override Reason: N/A - Order Check Not Evaluated by Provider

Do you want to Intervene? YES// NO

Moderate:

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Prospective Drug: MINOXIDIL 2.5MG S.T.
Causative Agent: MINOXIDIL (ALBANY - 07/29/15)
Historical/Observed: OBSERVED
Severity: MODERATE
Ingredients: MINOXIDIL
Signs/Symptoms: ANXIETY, ITCHING, WATERING EYES
Drug Class: CV490 ANTIHYPERTENSIVES, OTHER

Provider Override Reason: N/A - Order Check Not Evaluated by Provider

Do you want to Intervene? YES// NO

Not Entered:

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Prospective Drug: AMIODARONE
Causative Agent: AMIODARONE (ALBANY - 07/29/15)
Historical/Observed: OBSERVED
Severity: Not Entered
Ingredients: AMIODARONE, IODINE
Signs/Symptoms: ANXIETY
Drug Class: CV300 ANTIARRHYTHMICS

Provider Override Reason: N/A - Order Check Not Evaluated by Provider

Do you want to Intervene? YES// NO

Severe without Intervention:

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Prospective Drug: PENICILLIN
Causative Agent: PENICILLIN (ALBANY - 07/29/15)
Historical/Observed: OBSERVED
Severity: SEVERE
Ingredients: PENICILLIN
Signs/Symptoms: DIARRHEA, HIVES
Drug Class: AM110 PENICILLIN-G RELATED PENICILLINS

Provider Override Reason: N/A - Order Check Not Evaluated by Provider

Do you want to Intervene? YES// NO

With a SEVERE reaction, an intervention is required!

Severe with Intervention:

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Prospective Drug: PENICILLIN
Causative Agent: PENICILLIN (ALBANY - 07/29/15)
Historical/Observed: OBSERVED
Severity: SEVERE
Ingredients: PENICILLIN
Signs/Symptoms: DIARRHEA, HIVES
Drug Class: AM110 PENICILLIN-G RELATED PENICILLINS

Provider Override Reason: N/A - Order Check Not Evaluated by Provider

Do you want to Intervene? YES//

Enter your Current Signature Code: SIGNATURE VERIFIED

Now creating Pharmacy Intervention
For PENICILLIN VK 250MG TAB

PROVIDER: INPATIENT-MEDS, PROVIDER PROV
RECOMMENDATION: 1 CHANGE DRUG

See 'Pharmacy Intervention Menu' if you want to delete this
intervention or for more options.



Historical:

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Prospective Drug: AMPICILLIN 250MG
Causative Agent: AMPICILLIN (ALBANY - 01/14/16)
Historical/Observed: HISTORICAL
Severity: Not Entered
Ingredients: AMPICILLIN
Signs/Symptoms: DRY MOUTH, HIVES
Drug Class: AM111 PENICILLINS, AMINO DERIVATIVES

Provider Override Reason: N/A - Order Check Not Evaluated by Provider

Do you want to Intervene? YES// **NO**

Example: CPRS Allergy Order Entry Process

From the Order tab, enter a new allergy using the Allergies Dialog:

Causative Agent Lookup

Enter causative agent for Allergy or Adverse Drug Reaction:

(Enter the FIRST FEW LETTERS of the causative agent (minimum of 3) to allow for a comprehensive search. Only one reactant may be entered at a time)

Search for:

Select one of the following items No Known Allergies

112 matches found.

- VA Allergies File (no matches)
- National Drug File - Generic Drug Name (8)**
 - LIDOCAINE
 - LIDOCAINE/SODIUM CHLORIDE
 - LIDOCAINE/POVIDONE IODINE
 - LIDOCAINE/PRILOCAINE
 - LIDOCAINE/NEOMYCIN/POLYMYXIN
 - LIDOCAINE/TETRACAINE
 - LIDOCAINE/MENTHOL
 - LIDOCAINE/MENTHOL/METHYL SALICYLATE
- National Drug file - Trade Name (103)
- Local Drug File (no matches)
- Drug Ingredients File (1)
- VA Drug Class File (no matches)
- Add new free-text allergy (1)

Select from the matching entries on the list, or search again.

Example of Historical Allergy:

Enter Allergy or Adverse Reaction

General

No Known Allergies

Active Allergies

Originator: Vo,Mai - SYSTEMS ANA

Observed Historical

Causative agent: LIDOCAINE

Origination Date: Jan 15,2016@09:27

Nature of Reaction:

Signs/Symptoms:

- ANXIETY
- ANXIETY
- ITCHING, WATERING E
- ANOREXIA
- DROWSINESS
- NAUSEA, VOMITING
- DIARRHEA
- HIVES
- DRY MOUTH
- DRY NOSE
- RASH

Selected Symptoms:

- ANXIETY

Comments:

ID Band Marked

Remove

OK Cancel

ENTER ?? FOR MORE ACTIONS
PU PATIENT RECORD UPDATE NO NEW ORDER ENTRY
DA DETAILED ALLERGY/ADR LIST IN INTERVENTION MENU
VP VIEW PROFILE CM NEW CLINIC MEDICATION ENTRY
SELECT ACTION: VIEW PROFILE// DA

DETAILED ADR LIST JAN 15, 2016@09:51:07 PAGE: 1 OF 2
DEF, PATIENT WARD: GEN MED A
PID: 666-66-6661 ROOM-BED: HT(CM): _____ (_____)
DOB: 01/01/62 (54) WT(KG): _____ (_____)
SEX: MALE ADMITTED: 04/15/15
DX: TESTING LAST TRANSFERRED: *****
CRCL: <NOT FOUND> (CREAT: NOT FOUND) BSA (M2): _____

VERIFIED

DRUG:

- 1 AMIODARONE
- 2 AMIODARONE 200MG (PAR)
- 3 HEPARIN
- 4 INDINAVIR
- 5 MINOXIDIL
- 6 MORPHINE
- 7 PENICILLIN
- 8 VANCOMYCIN

DRUG/FOOD:

- 9 ASPIRIN

+ ENTER ?? FOR MORE ACTIONS
EA ENTER/EDIT ALLERGY/ADR DATA SA SELECT ALLERGY
SELECT ACTION: NEXT SCREEN// EA

ENTER CAUSATIVE AGENT: LIDOC

CHECKING EXISTING PATIENT ALLERGIES (#120.8) FILE FOR MATCHES...

NOW CHECKING GMR ALLERGIES (#120.82) FILE FOR MATCHES...

NOW CHECKING THE NATIONAL DRUG FILE - GENERIC NAMES (#50.6)

- 1 LIDOCAINE
- 2 LIDOCAINE/MENTHOL
- 3 LIDOCAINE/MENTHOL/METHYL SALICYLATE
- 4 LIDOCAINE/NEOMYCIN/POLYMYXIN
- 5 LIDOCAINE/POVIDONE IODINE

PRESS <RETURN> TO SEE MORE, '^' TO EXIT THIS LIST, OR

CHOOSE 1-5: 1

CHOOSE 1-5: 1 LIDOCAINE

LIDOCAINE OK? YES// (YES)

(O)BSERVED OR (H)ISTORICAL ALLERGY/ADVERSE REACTION: 0 OBSERVED

SELECT DATE REACTION WAS OBSERVED (TIME OPTIONAL): T (JAN 15, 2016) JAN 15,
2016 (JAN 15, 2016)

ARE YOU ADDING 'JAN 15, 2016' AS

A NEW ADVERSE REACTION REPORTING? NO// Y (YES)

NO SIGNS/SYMPTOMS HAVE BEEN SPECIFIED. PLEASE ADD SOME NOW.

THE FOLLOWING ARE THE TOP TEN MOST COMMON SIGNS/SYMPTOMS:

1. ANXIETY
2. ITCHING, WATERING EYES
3. ANOREXIA
7. HIVES
8. DRY MOUTH
9. DRY NOSE

- 4. DROWSINESS
- 5. NAUSEA,VOMITING
- 6. DIARRHEA
- 10. RASH
- 11. OTHER SIGN/SYMP TOM

ENTER FROM THE LIST ABOVE : 7,10

DATE(TIME OPTIONAL) OF APPEARANCE OF SIGN/SYMP TOM(S): JAN 15, 2016// (JAN 15, 2016)

THE FOLLOWING IS THE LIST OF REPORTED SIGNS/SYMP TOMS FOR THIS REACTION:

| <u>SIGNS/SYMP TOMS</u> | <u>DATE OBSERVED</u> |
|------------------------|----------------------|
| 1 HIVES | JAN 15, 2016 |
| 2 RASH | JAN 15, 2016 |

SELECT ACTION (A)DD, (D)ELETE OR <RET>:

CHOOSE ONE OF THE FOLLOWING:

- A - ALLERGY
- P - PHARMACOLOGICAL
- U - UNKNOWN

MECHANISM: UNKNOWN// A ALLERGY

COMMENTS:

NO EXISTING TEXT
EDIT? NO//

COMPLETE THE OBSERVED REACTION REPORT? YES// (YES)

DATE/TIME OF EVENT: JAN 15,2016//

OBSERVER: VO,MAI// BIRMINHGAM ALABAMA MV SYSTEMS ANALYST

SEVERITY: SE SEVERE

DATE MD NOTIFIED: JAN 15,2016// (JAN 15, 2016)

COMPLETE THE FDA DATA? YES// N (NO)

CURRENTLY YOU HAVE VERIFIER ACCESS.

WOULD YOU LIKE TO VERIFY THIS CAUSATIVE AGENT NOW? YES// (YES)

CAUSATIVE AGENT: LIDOCAINE

TYPE: DRUG

INGREDIENTS: LIDOCAINE

VA DRUG CLASSES: CN204 - LOCAL ANESTHETICS,INJECTION

CV300 - ANTIARRHYTHMICS

DE700 - LOCAL ANESTHETICS, TOPICAL

GU900 - GENITO-URINARY AGENTS, OTHER

NT300 - ANESTHETICS, MUCOSAL

OP700 - ANESTHETICS, TOPICAL OPHTHALMIC

PH000 - PHARMACEUTICAL AIDS/REAGENTS

OBS/HIST: OBSERVED

SIGNS/SYMP TOMS: HIVES (JAN 15, 2016)

RASH (JAN 15, 2016)

MECHANISM: ALLERGY

WOULD YOU LIKE TO EDIT ANY OF THIS DATA? N (NO)

PATIENT: DEF, PATIENT

CAUSATIVE AGENT: LIDOCAINE

INGREDIENTS: LIDOCAINE

VA DRUG CLASSES: ANTIARRHYTHMICS

LOCAL ANESTHETICS, INJ

LOCAL ANESTHETICS, TOP

ANESTHETICS, MUCOSAL

ENTER RETURN TO CONTINUE OR '^' TO EXIT:

ANESTHETICS, TOPICAL O
PHARMACEUTICAL AIDS/R
GENITO-URINARY AGENTS

ORIGINATOR: VO,MAI
SIGN OFF: NO
SEVERITY: SEVERE

ORIGINATED: JAN 15, 2016@09:52
OBS/HIST: OBSERVED
OBS D/T: JAN 15, 2016

ID BAND MARKED:

CHART MARKED:

SIGNS/SYMPTOMS: HIVES (JAN 15, 2016)
RASH (JAN 15, 2016)
CHANGE STATUS OF THIS ALLERGY/ADVERSE REACTION TO VERIFIED? Y
OPENING ADVERSE REACT/ALLERGY RECORD FOR REVIEW...

BROWSE DOCUMENT JAN 15, 2016@09:54:33 PAGE: 1 OF 1

ADVERSE REACT/ALLERGY

DEF,P 666-66-6661 GEN MED ADM: 04/15/2015 DIS:

DATE OF NOTE: JAN 15, 2016@09:54:33 ENTRY DATE: JAN 15, 2016@09:54:33
AUTHOR: VO,MAI EXP COSIGNER:
URGENCY: STATUS: UNSIGNED

THIS PATIENT HAS HAD AN ALLERGY TO LIDOCAINE
VERIFIED ON JAN 15, 2016@09:54:33.

+ NEXT SCREEN - PREV SCREEN ?? MORE ACTIONS
FIND SIGN/COSIGN LINK ...
PRINT COPY ENCOUNTER EDIT
EDIT IDENTIFY SIGNERS INTERDISCIPL'RY NOTE
MAKE ADDENDUM DELETE QUIT
SELECT ACTION: QUIT//

Example of Historical Allergy:

DETAILED ADR LIST JAN 15, 2016@09:51:07 PAGE: 1 OF 2

DEF,PATIENT WARD: GEN MED A
PID: 666-66-6661 ROOM-BED: HT(CM): _____ (_____)
DOB: 01/01/62 (54) WT(KG): _____ (_____)
SEX: MALE ADMITTED: 04/15/15
DX: TESTING LAST TRANSFERRED: *****
CRCL: <NOT FOUND> (CREAT: NOT FOUND) BSA (M2): _____

VERIFIED

DRUG:

- 1 AMIODARONE
- 2 AMIODARONE 200MG (PAR)
- 3 HEPARIN
- 4 INDINAVIR
- 5 MINOXIDIL
- 6 MORPHINE
- 7 PENICILLIN
- 8 VANCOMYCIN

DRUG/FOOD:

9 ASPIRIN
 + ENTER ?? FOR MORE ACTIONS
 EA ENTER/EDIT ALLERGY/ADR DATA SA SELECT ALLERGY
 SELECT ACTION: NEXT SCREEN// EA

ENTER CAUSATIVE AGENT: LIDO

CHECKING EXISTING PATIENT ALLERGIES (#120.8) FILE FOR MATCHES...
 ,PATIENT DEF,PATIENT 1-1-62 666666661 YES ACTIVE DUTY INP
 ATIENT-MEDS,PROVIDER LIDOCAINE
 LIDOCAINE OK? YES// N (NO)

NOW CHECKING GMR ALLERGIES (#120.82) FILE FOR MATCHES...

NOW CHECKING THE NATIONAL DRUG FILE - GENERIC NAMES (#50.6)

- 1 LIDOCAINE
- 2 LIDOCAINE/MENTHOL
- 3 LIDOCAINE/MENTHOL/METHYL SALICYLATE
- 4 LIDOCAINE/NEOMYCIN/POLYMYXIN

| REACTANT | VER. | MECH. | OBS/ HIST | TYPE |
|---|------|---------|--------------|------|
| ----- AMIODARONE (IODINE) REACTIONS: ANXIETY | AUTO | ALLERGY | OBS | DRUG |
| AMIODARONE 200MG (PAR) (AMIODARONE, IODINE) REACTIONS: ANXIETY | YES | ALLERGY | HIST | DRUG |
| HEPARIN REACTIONS: DRY MOUTH, DRY NOSE | AUTO | ALLERGY | OBS | DRUG |
| INDINAVIR (INDINAVIR SULFATE) REACTIONS: ITCHING,WATERING EYES, ANOREXIA, NAUSEA,VOMITING, ANXIETY, DROWSINESS | AUTO | ALLERGY | OBS | DRUG |
| LIDOCAINE REACTIONS: HIVES, RASH | YES | ALLERGY | OBS | DRUG |

5 LIDOCAINE/POVIDONE IODINE
 PRESS <RETURN> TO SEE MORE, '^' TO EXIT THIS LIST, OR
 CHOOSE 1-5: 3 LIDOCAINE/MENTHOL/METHYL SALICYLATE
 LIDOCAINE/MENTHOL/METHYL SALICYLATE OK? YES// (YES)

(O)BSERVED OR (H)ISTORICAL ALLERGY/ADVERSE REACTION: H HISTORICAL

NO SIGNS/SYMPTOMS HAVE BEEN SPECIFIED. PLEASE ADD SOME NOW.

THE FOLLOWING ARE THE TOP TEN MOST COMMON SIGNS/SYMPTOMS:

- | | |
|--------------------------|------------------------|
| 1. ANXIETY | 7. HIVES |
| 2. ITCHING,WATERING EYES | 8. DRY MOUTH |
| 3. ANOREXIA | 9. DRY NOSE |
| 4. DROWSINESS | 10. RASH |
| 5. NAUSEA,VOMITING | 11. OTHER SIGN/SYMPTOM |
| 6. DIARRHEA | |

ENTER FROM THE LIST ABOVE : 7
 DATE(TIME OPTIONAL) OF APPEARANCE OF SIGN/SYMPTOM(S):

THE FOLLOWING IS THE LIST OF REPORTED SIGNS/SYMPTOMS FOR THIS REACTION:

| SIGNS/SYMPTOMS | DATE OBSERVED |
|----------------|---------------|
| ----- | ----- |
| 1 HIVES | |

SELECT ACTION (A)DD, (D)ELETE OR <RET>:

CHOOSE ONE OF THE FOLLOWING:

- A - ALLERGY
- P - PHARMACOLOGICAL
- U - UNKNOWN

MECHANISM: UNKNOWN// A ALLERGY

COMMENTS:

NO EXISTING TEXT
EDIT? NO//

CURRENTLY YOU HAVE VERIFIER ACCESS.

WOULD YOU LIKE TO VERIFY THIS CAUSATIVE AGENT NOW? YES// Y (YES)

CAUSATIVE AGENT: LIDOCAINE/MENTHOL/METHYL SALICYLATE
TYPE: DRUG

INGREDIENTS: LIDOCAINE
MENTHOL
METHYL SALICYLATE

VA DRUG CLASSES: DE900 - DERMATOLOGICALS, TOPICAL OTHER
OBS/HIST: HISTORICAL

SIGNS/SYMPTOMS: HIVES
MECHANISM: ALLERGY

WOULD YOU LIKE TO EDIT ANY OF THIS DATA? N (NO)

PATIENT: DEF, PATIENT CAUSATIVE AGENT: LIDOCAINE/MENTHOL/MET
INGREDIENTS: LIDOCAINE VA DRUG CLASSES: DERMATOLOGICALS, TOPIC
MENTHOL
METHYL SALICYLATE

ORIGINATOR: VO, MAI
SIGN OFF: NO

ORIGINATED: JAN 15, 2016@09:55
OBS/HIST: HISTORICAL

ID BAND MARKED:

CHART MARKED:

ENTER RETURN TO CONTINUE OR '^' TO EXIT:

JAN 15, 2016@09:56:46

SIGNS/SYMPTOMS: HIVES

CHANGE STATUS OF THIS ALLERGY/ADVERSE REACTION TO VERIFIED? Y (YES)

OPENING ADVERSE REACT/ALLERGY RECORD FOR REVIEW...

BROWSE DOCUMENT JAN 15, 2016@09:56:46 PAGE: 1 OF 1

ADVERSE REACT/ALLERGY

DEF, P 666-66-6661 GEN MED ADM: 04/15/2015 DIS:

DATE OF NOTE: JAN 15, 2016@09:56:45 ENTRY DATE: JAN 15, 2016@09:56:45

AUTHOR: VO, MAI EXP COSIGNER:
URGENCY: STATUS: UNSIGNED

THIS PATIENT HAS HAD AN ALLERGY TO LIDOCAINE/MENTHOL/METHYL SALICYLATE
VERIFIED ON JAN 15, 2016@09:56:45.

```

+ NEXT SCREEN - PREV SCREEN ?? MORE ACTIONS
FIND SIGN/COSIGN LINK ...
PRINT COPY ENCOUNTER EDIT
EDIT IDENTIFY SIGNERS INTERDISCIPL'RY NOTE
MAKE ADDENDUM DELETE QUIT
SELECT ACTION: QUIT//

```

- **Clinical Reminder Order Checks** - This section describes the Clinical Reminder Order Checks functionality (PSJ*5*281).

Order Checks now includes the ability to view Clinical Reminders (prior to the display of Enhanced Drug-Drug interactions). Reminders are used to aid physicians in performing tasks to fulfill Clinical Practice Guidelines and periodic procedures or education as needed for veteran patients

Example: Drug-Drug Interactions Display

```

Inpatient Order Entry Mar 16, 2011@12:04:33 Page: 1 of 2
BCMA,EIGHTEEN-PATIENT Ward: 7A GEN A
PID: 666-33-0018 Room-Bed: Ht(cm): 175.26 (12/15/08)
DOB: 04/07/35 (75) Wt(kg): 100.00 (12/15/08)
Sex: FEMALE Admitted: 01/31/02
Dx: UPSET Last transferred: 06/04/10
CrCL: 78.1(est.) (CREAT:1.0mg/dL 4/19/12) BSA (m2): 2.21
-----
- - - - - N O N - V E R I F I E D C O M P L E X - - - - -
1 LITHIUM TAB,SA C 10/13/2011 10/15/2011 N
Give: 450MG PO QID
LITHIUM TAB,SA C 10/13/2011 10/15/2011 N
Give: 10000MG PO Q4H
2 RILUZOLE TAB C 10/13/2011 10/15/2011 N
Give: 50MG PO BID
RILUZOLE TAB C 10/15/2011 10/16/2011 N
Give: 10000MG PO Q4H
- - - - - P E N D I N G C O M P L E X - - - - -
3 HALOPERIDOL TAB ? ***** ***** P
Give: 40MG PO BID
-----Enter ?? for more actions-----
PI Patient Information NO New Order Entry
PU Patient Record Update CM New Clinic Medication Entry
SO Select Order
Select Action: Quit// no New Order Entry

Select DRUG: indinavi
Lookup: DRUG GENERIC NAME
INDINAVIR SULFATE 400MG CAP AM800
...OK? Yes// (Yes)

Now doing allergy checks. Please wait...

Now processing Clinical Reminder Order Checks. Please wait ...

=====
*** Clinical Reminder Order Check | Severity: HIGH ***

CR3286 CROC - GENTAMICIN OI SEVERITY HIGH (RULE DISPLAY NAME)
CR3286 CROC - GENTAMICIN OI SEVERITY HIGH (RULE ORDER CHECK TEXT)

```

*** Clinical Reminder Order Check | Severity: MEDIUM ***

Potentially Teratogenic Medication (FDA Category D or C)

Concern has been raised about use of this medication during pregnancy.

- 1) Pregnancy status should be determined. Discuss use of this medication on the context of risks to the mother and child of untreated disease. Potential benefits may warrant use of the drug in pregnant women despite risks.
- 2) The patient must be provided contraceptive counseling on potential risk vs. benefit of taking this medication if she were to become pregnant.

The 'Teratogenic Medications' Order Check will display for female patients between the ages of 12 and 50, except those with a known exclusion criterion (e.g., hysterectomy), or those with a documented IUD placement that is more recent than a documented IUD removal.

*** Clinical Reminder Order Check | Severity: LOW ***

CR3286 CROC - GENTAMICIN DRUG SEVERITY LOW (RULE DISPLAY NAME)

CR3286 CROC - GENTAMICIN DRUG SEVERITY LOW (RULE ORDER CHECK TEXT 01) CR3286 CROC - GENTAMICIN DRUG SEVERITY LOW (RULE ORDER CHECK TEXT 02) CR3286 CROC - GENTAMICIN DRUG SEVERITY LOW (RULE ORDER CHECK TEXT 03) CR3286 CROC - GENTAMICIN DRUG SEVERITY LOW (RULE ORDER CHECK TEXT 04)

Do you want to Continue? Y// ES

Enter your Current Signature Code: SIGNATURE VERIFIED

Now creating Pharmacy Intervention
For GENTAMICIN 4MG/2ML INTRATHECAL

PROVIDER: DOCTOR, TEST DT
RECOMMENDATION: 9 OTHER
OTHER FOR RECOMMENDATION:
 No existing text
 Edit? NO//

See 'Pharmacy Intervention Menu' if you want to delete this intervention or for more options.

Press Return to continue...

Would you like to edit this intervention? N// O

Now Processing Enhanced Order Checks! Please wait...

Press Return to continue...

=====
This patient is receiving the following order(s) that have a CRITICAL Drug Interaction with INDINAVIR SULFATE 400MG CAP:

Local Rx #501820A (ACTIVE) for SIMVASTATIN 10MG TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY EVENING
Processing Status: Not released locally (Window)

Concurrent administration may result in elevated HMG levels, which may increase the risk of myopathy, including rhabdomyolysis. (1-16)

=====
Display Professional Interaction Monograph(s)? NO//

Do you want to Continue with INDINAVIR SULFATE 400MG CAP? NO// y YES

Now creating Pharmacy Intervention
For INDINAVIR SULFATE 400MG CAP

PROVIDER: PSJPROVIDER,ONE TP

RECOMMENDATION: ?

Answer with APSP INTERVENTION RECOMMENDATION, or NUMBER

Choose from:

- 1 CHANGE DRUG
- 2 CHANGE FORM OR ROUTE OF ADMINISTRATION
- 3 ORDER LAB TEST
- 4 ORDER SERUM DRUG LEVEL
- 5 CHANGE DOSE
- 6 START OR DISCONTINUE A DRUG
- 7 CHANGE DOSING INTERVAL
- 8 NO CHANGE
- 9 OTHER

RECOMMENDATION: 8 NO CHANGE

See 'Pharmacy Intervention Menu' if you want to delete this intervention or for more options.

Would you like to edit this intervention? N// O

Available Dosage(s)

- 1. 400MG
- 2. 800MG

Select from list of Available Dosages or Enter Free Text Dose: 1 400MG

You entered 400MG is this correct? Yes// YES

MED ROUTE: ORAL (BY MOUTH)// PO

SCHEDULE: QDAY//

- 1 QDAY 0900
- 2 QDAY-DIG 1300
- 3 QDAY-WARF 1300

CHOOSE 1-3: 1 0900

SCHEDULE TYPE: CONTINUOUS// CONTINUOUS

ADMIN TIMES: 0900//

SPECIAL INSTRUCTIONS:

START DATE/TIME: MAR 16,2011@12:08// MAR 16,2011@12:08

STOP DATE/TIME: MAR 17,2011@24:00// MAR 17,2011@24:00

Expected First Dose: MAR 17,2011@09:00

PROVIDER: PHARMACIST,SEVENTEEN// 145

NON-VERIFIED UNIT DOSE Mar 16, 2011@12:07:46 Page: 1 of 2

BCMA,EIGHTEEN-PATIENT Ward: 7A GEN A

PID: 666-33-0018 Room-Bed: Ht (cm): 175.26 (12/15/08)

DOB: 04/07/35 (75) Wt (kg): 100.00 (12/15/08)

(1) Orderable Item: INDINAVIR CAP, ORAL

Instructions:

(2) Dosage Ordered: 400MG

Duration:

(3) Start: 03/16/2011 12:08

(4) Med Route: ORAL (BY MOUTH)

(5) Stop: 03/17/2011 24:00

(6) Schedule Type: CONTINUOUS

(8) Schedule: QDAY

(9) Admin Times: 0900

```

(10) Provider: PHARMACIST,SEVENTEEN
(11) Special Instructions:

(12) Dispense Drug                                U/D      Inactive Date
      INDINAVIR SULFATE 400MG CAP                 1

+-----Enter ?? for more actions-----+
ED  Edit                                AC  ACCEPT
Select Item(s): Next Screen// ac  ACCEPT

Press Return to continue...

NATURE OF ORDER: WRITTEN//          W

...transcribing this non-verified order...

NON-VERIFIED UNIT DOSE                Mar 16, 2011@12:08:04          Page: 1 of 2
BCMA,EIGHTEEN-PATIENT                 Ward: 7A GEN                  A
  PID: 666-33-0018                    Room-Bed:                    Ht (cm): 175.26 (12/15/08)
  DOB: 04/07/35 (75)                  Wt (kg): 100.00 (12/15/08)

-----+
* (1) Orderable Item: INDINAVIR CAP,ORAL
      Instructions:
* (2) Dosage Ordered: 400MG
      Duration:                    (3) Start: 03/16/2011 12:08
* (4) Med Route: ORAL (BY MOUTH)
                                      (5) Stop: 03/17/2011 24:00
      (6) Schedule Type: CONTINUOUS
* (8) Schedule: QDAY
      (9) Admin Times: 0900
* (10) Provider: PHARMACIST,SEVENTEEN [w]
      (11) Special Instructions:

(12) Dispense Drug                                U/D      Inactive Date
      INDINAVIR SULFATE 400MG CAP                 1

+-----Enter ?? for more actions-----+
DC  Discontinue                                ED  Edit                                AL  Activity Logs
HD  (Hold)                                    RN  (Renew)
FL  Flag                                    VF  Verify
Select Item(s): Next Screen//          NEXT SCREEN

```

4.10.1 Clinic Orders

Clinic orders are created via CPRS generally using the Meds Inpatient tab or the IV Fluids tab. Drug orders that have a clinic and an appointment date and time are considered clinic orders. The clinic must be defined with ‘ADMINISTER INPATIENT MEDS?’ prompt answered YES under the SETUP A CLINIC [SDBUILD] option in the Scheduling package. Defining the clinic in this manner ensures that an appointment date and time are defined.

Patch PSJ*5*319 added functionality to allow users to create clinic orders in backdoor. Users can select the action, CM New Clinic Medication Entry, available on the ListMan Inpatient order entry screen to create a new clinic order.

```

PI Patient Information                NO New Order Entry
PU Patient Record Update             CM New Clinic Medication Entry
SO Select Order
Select Action: Next Screen// CM  New Clinic Medication Entry

Visit Location:    GENERAL MEDICINE
Date/Time of Visit: NOW// (AUG 10, 2020@13:57)

Select DRUG:

```

MOCHA v1.0 Enhancements 1 adds drug interaction and therapeutic duplication order checks for clinic orders to Outpatient Pharmacy. Previously Inpatient Medications package performed order checks on active, pending and non-verified clinic orders. With the MOCHA v1.0 Enhancements 1, Inpatient medications will perform enhanced order checks for recently discontinued and expired inpatient medications clinic orders.

For both packages, the system will display clinic orders in a standard format to differentiate them from Inpatient Medications and Outpatient Pharmacy order checks.

Based on the number of days defined in the IMO DC/EXPIRED DAY LIMIT field (#6) in CLINIC DEFINITION file (#53.46), the enhanced order checks process will only include discontinued and expired drug interactions and/or duplicate therapy orders with a stop date that falls within the range defined. The following are the scenarios that drive which dates will be displayed for the clinic order:

- If there are start/stop dates defined, they are displayed.
- If there are no stop/start dates defined, the ‘requested start/stop dates’ will be displayed with the word “Requested” prior to the start/stop date header.
- If there are no requested start/stop dates defined, the order date will be displayed and the start/stop date headers will be displayed with “*****” for the date.
- If there is either a requested start date or a requested stop date, the available date will be displayed and “*****” will be displayed for the undefined date.

Unit Dose Clinic Order Check example:

```
Now Processing Enhanced Order Checks! Please wait...
This patient is receiving the following order(s) that have a CRITICAL Drug
Interaction with CIMETIDINE 300 MG:
```

```
  Clinic Order: PHENYTOIN 100MG CAP (DISCONTINUED)
    Schedule: Q8H
    Dosage: 100MG
  Start Date: 02/27/2012@13:00
  Stop Date: 02/28/2012@15:22:27
```

```
Concurrent use of cimetidine or ranitidine may result in elevated levels
of and toxicity from the hydantoin. Neutropenia and thrombocytopenia have
been reported with concurrent cimetidine and phenytoin.
```

IV Clinic Order Check example:

```
This patient is receiving the following order(s) that have a CRITICAL Drug
Interaction with WARFARIN 2MG TAB:
```

```
  Clinic Order: POTASSIUM CHLORIDE 20 MEQ (ACTIVE)
  Other Additive(s): MAGNESIUM SULFATE 1 GM (1), CALCIUM GLUCONATE 1 GM (2),
                    HEPARIN 1000 UNITS, CIMETIDINE 300 MG
  Solution(s): DEXTROSE 20% 500 ML 125 ml/hr
              AMINO ACID SOLUTION 8.5% 500 ML 125 ml/hr
  Start Date: 04/05/2012@15:00
  Stop Date: 04/27/2012@24:00
```

```
The pharmacologic effects of warfarin may be increased resulting in severe
bleeding.
```

Therapeutic Duplication - IV and Unit Dose clinic order therapeutic duplications display in the same format as drug interactions.

Unit Dose Clinic Order Check example:

```
This patient is already receiving the following INPATIENT and/or OUTPATIENT
order(s) for a drug in the same therapeutic class(es):

Drug(s) Ordered:
  POTASSIUM CHLORIDE 30 MEQ

      Clinic Order: POTASSIUM CHLORIDE 10MEQ TAB (PENDING)
      Schedule: BID
      Dosage: 20MEQ
  Requested Start Date: 11/20/2012@17:00
      Stop Date: *****

Class(es) Involved in Therapeutic Duplication(s): Potassium
```

IV Order Check example:

```
This patient is already receiving the following INPATIENT and/or OUTPATIENT
order(s) for a drug in the same therapeutic class(es):

Drug(s) Ordered:
  CEFAZOLIN 1 GM

      Clinic Order: CEFAZOLIN 2 GM (PENDING)
      Solution(s): 5% DEXTROSE 50 ML
      Order Date: 11/20/12@11:01
      Start Date: *****
      Stop Date: *****

      Clinic Order: CEFAZOLIN SOD 1GM INJ (EXPIRED)
      Solution(s): 5% DEXTROSE 50 ML
      Start Date: 10/24/2012@16:44
      Stop Date: 10/25/2012@24:00

Class(es) Involved in Therapeutic Duplication(s): Beta-Lactams,
Cephalosporins, Cephalosporins - 1st Generation
```

- **Drug-Allergy Interactions** – Drug allergy interactions will be either critical or significant. If the Dispense Drug selected is identified as having an interaction with one of the patient’s allergies, the allergy the drug interacts with will be displayed.

- **CPRS Order Check: Aminoglycoside Ordered**

```
Trigger: Ordering session completion.
Mechanism: For each medication order placed during this ordering session, the CPRS Expert
System requests the pharmacy package to determine if the medication belongs to the VA
Drug Class 'Aminoglycosides'. If so, the patient’s most recent BUN results are used to
calculate the creatinine clearance then OERR is notified and the warning message is
displayed.
[Note: The creatinine clearance value displayed in some order check messages is an
estimate based on adjusted body weight if patient height is > 60 inches. Approved by the
CPRS Clinical Workgroup 8/11/04, it is based on a modified Cockcroft-Gault formula and
was installed with patch OR*3*221.
For more information:
http://www.ascp.com/public/pubs/tcp/1999/jan/cockcroft.shtml
CrCl (male) = (140 - age) x (adj body weight* in kg)
-----
(serum creatinine) x 72
      * If patient height is not greater than 60 inches, actual body weight is used.
CrCl (female) = 0.85 x CrCl (male)
```


To calculate adjusted body weight, the following equations are used:
Ideal body weight (IBW) = 50 kg x (for men) or 45 kg x (for women) + 2.3 x (height in inches - 60)

Adjusted body weight (Adj. BW) if the ratio of actual BW/IBW > 1.3 = (0.3 x (Actual BW - IBW)) + IBW

Adjusted body weight if the ratio of actual BW/IBW is not > 1.3 = IBW or Actual BW (whichever is less)]

Message: Aminoglycoside - est. CrCl: <value calculated from most recent serum creatinine>. (CREAT: <result> BUN: <result>).

Danger Lvl: This order check is exported with a High clinical danger level.

- **CPRS Order Check: Dangerous Meds for Patients >64**

DANGEROUS MEDS FOR PT > 64 - Yes

This is based on the BEERS list. This order check only checks for three drugs: Amitriptyline, Chlorpropamide and Dipyridamole. The workgroup felt that the list of drugs should be expanded. A request can be sent to CPRS for this.

Trigger: Acceptance of pharmacy orderable items amitriptyline, chlorpropamide or dipyridamole.

Mechanism: The CPRS Expert System determines if the patient is greater than 64 years old. It then checks the orderable item of the medication ordered to determine if it is mapped as a local term to the national term DANGEROUS MEDS FOR PTS > 64.

Message: If the orderable item text contains AMITRIPTYLINE this message is displayed: Patient is <age>. Amitriptyline can cause cognitive impairment and loss of balance in older patients. Consider other antidepressant medications on formulary.

If the orderable item text contains CHLORPROPAMIDE this message is displayed: Patient is <age>. Older patients may experience hypoglycemia with Chlorpropamide due to its long duration and variable renal secretion. They may also be at increased risk for Chlorpropamide-induced SIADH.

If the orderable item text contains DIPYRIDAMOLE this message is displayed: Patient is <age>. Older patients can experience adverse reactions at high doses of Dipyridamole (e.g., headache, dizziness, syncope, GI intolerance.) There is also questionable efficacy at lower doses.

Danger Lvl: This order check is exported with a High clinical danger level.

- **CPRS Order Check: Glucophage Lab Results**

Glucophage-Lab Results Interactions

Trigger: Selection of a Pharmacy orderable item.

Mechanism: The CPRS Expert System checks the pharmacy orderable item's local text (from the Dispense Drug file [#50]) to determine if it contains "glucophage" or "metformin". The expert system next searches for a serum creatinine result within the past x number of days as determined by parameter ORK GLUCOPHAGE CREATININE. If the patient's creatinine result was greater than 1.5 or does not exist, OE/RR is notified and the warning message is displayed.

Message: Metformin- no serum creatinine within past <x> days. else:

Metformin - Creatinine results: <creatinine greater than 1.5 w/in past <x> days>

Danger Lvl: This order check is exported with a High clinical danger level.

4.10.2 Order Validation Checks

The following order validation checks will apply to Unit Dose orders and to intermittent IV orders.



- **Order Validation Check One**

For intermittent IV orders, references to an order's Schedule Type will refer to either the TYPE OF SCHEDULE from the Administration Schedule file (#51.1), or PRN for schedule names in PRN format, or CONTINUOUS for schedule names in Day of Week format.

- **Order Validation Check Two**

The system shall use the schedule type of the schedule from the Administration Schedule file independent of the schedule name when processing an order to determine if administration times are required for a particular order.

- **Order Validation Check Three**

If an order has the Schedule Type of Continuous, the Schedule entered is NOT in Day of Week (Ex. MO-FR) or PRN (Ex. TID PC PRN) format, and the frequency associated with the schedule is one day (1440 minutes) or less, the system will not allow the number of administration times associated with the order to be greater than the number of administration times calculated for that frequency. The system will allow for the number of administration times to be LESS than the calculated administration times for that frequency but not less than one administration time. (For example, an order with a schedule of BID is associated with a frequency of 720 minutes. The frequency is divided into 1440 minutes (24 hours) and the resulting calculated administration time is two. For this order, the number of administration times allowed may be no greater than two, but no less than one. Similarly, a schedule frequency of 360 minutes must have at least one administration time but cannot exceed four administration times.)

If an order has the Schedule Type of Continuous, the Schedule entered is NOT in Day of Week (Ex. MO-FR) or PRN (Ex. TID PC PRN) format, and the frequency associated with the schedule is **greater than one day** (1440 minutes) and evenly divisible by 1440, only one administration time is permitted. (For example, an order with a schedule frequency of 2880 minutes must have ONLY one administration time. If the frequency is greater than 1440 minutes and not evenly divisible by 1440, no administration times will be permitted.)

The system shall present warning/error messages to the user if the number of administration times is less than or greater than the maximum admin times calculated for the schedule or if no administration times are entered. If the number of administration times entered is less than the maximum admin times calculated for the schedule, the warning message: "The number of admin times entered is fewer than indicated by the schedule." shall appear. In this case, the user will be allowed to continue after the warning. If the number of administration times entered is greater than the maximum admin times calculated for the schedule, the error message: "The number of admin times entered is greater than indicated by the schedule." shall appear. In this case, the user will not be allowed to continue after the warning. If no admin times are entered, the error message: "This order requires at least one administration time." shall appear. The user will not be allowed to accept the order until at least one admin time is entered.

- **Order Validation Check Four**

If an order has a Schedule Type of Continuous and is an Odd Schedule {a schedule whose frequency is not evenly divisible by or into 1440 minutes (1 day)}, the system shall prevent the entry of administration times. For example, Q5H, Q17H – these are not evenly divisible by 1440. In these cases, the system shall prevent access to the administration times field. No warning message is presented.

- **Order Validation Check Five**

If an order has a Schedule Type of Continuous with a non-odd frequency of greater than one day, (1440 minutes) the system shall prevent more than one administration time, for example, schedules of Q72H, Q3Day, and Q5Day.

If the number of administration times entered exceeds one, the error message: “This order requires one admin time” shall appear. If no administration times are entered, the error message: “This order requires at least one administration time.” shall appear. The user will not be allowed to accept the order until at least one admin time is entered.

- **Order Validation Check Six**

If an order has a Schedule Type of One Time, or if an order is entered with a schedule that is defined in the schedule file as One Time, the system shall prevent the user from entering more than one administration time.

If more than one administration time is entered, the error message: “This is a One Time Order - only one administration time is permitted.” shall appear. No administration times are required.

- **Order Validation Check Seven**

For an order with a Schedule Type of Continuous where no doses/administration times are scheduled between the order’s Start Date/Time and the Stop Date/Time, the system shall present a warning message to the user and not allow the order to be accepted or verified until the Start/Stop Date Times, schedule, and/or administration times are adjusted so that at least one dose is scheduled to be given.

If the stop time will result in no administration time between the start time and stop time, the error message: “There must be an admin time that falls between the Start Date/Time and Stop Date/Time.” shall appear.

4.10.3 Display of Provider Overrides and Pharmacist Interventions

In Inpatient Medications, the first time a field preceded by an asterisk (*) is selected for editing and when renewing an order, if Current Pharmacist Interventions exist for the order, entering Y (Yes) at the prompt, “Order Check Overrides/Interventions exist for this order. Display? (Y/N)? Y//,” will display the following information when the fields are populated with data:

| | |
|--|---------------------------|
| • Heading: **Current Pharmacist Interventions for this order** | • Recommendation Accepted |
| • Intervention Date/Time | • Agree With Provider |

| | |
|----------------------------|---------------------------|
| • Provider | • Rx # |
| • Pharmacist | • Division |
| • Drug, | • Financial Cost |
| • Instituted By | • Other For Intervention |
| • Intervention | • Reason For Intervention |
| • Other For Recommendation | • Action Taken |
| • Originating Package | • Clinical Impact |
| • Was Provider Contacted | • Financial Impact |
| • Provider Contacted | |

```

=====
** Current Provider Overrides for this order **
=====
Overriding Provider: PSJPROVIDER,ONE (PROVIDER)
Override Entered By: PSJPROVIDER,ONE (PROVIDER)
Date/Time Entered: 7/12/11 09:13
Override Reason: Testing 9 OTHER

CRITICAL drug-drug interaction: METRONIDAZOLE 250MG TAB and WARFARIN NA
(GOLDEN STATE) 2MG TAB [ACTIVE] - Concurrent use of anticoagulants with
metronidazole or tinidazole may result in reduced prothrombin activity and/or
increased risk of bleeding. - Monograph Available

CRITICAL drug-drug interaction: METRONIDAZOLE 250MG TAB and WARFARIN(GOLDEN
ST) 0.5MG(1/2X1MG) TAB [UNRELEASED] - Concurrent use of anticoagulants with
metronidazole or tinidazole may result in reduced prothrombin activity and/or
increased risk of bleeding. - Monograph Available

Press RETURN to Continue or '^' to Exit :

=====
** Current Pharmacist Interventions for this order **
=====
Intervention Date: 7/12/11 09:14
Provider: PSJPROVIDER,ONE Pharmacist: PSJPHARMACIST,ONE
Drug: METRONIDAZOLE 250MG TAB Instituted By: PHARMACY
Intervention: CRITICAL DRUG INTERACTION
Recommendation: OTHER Originating Package: INPATIENT
Other For Recommendation:
INTERVENTION FOR CRITICAL DRUG-DRUG
Press RETURN to Continue or '^' to Exit :

```

Intervention TIME displays to the right of the date (e.g., 01/18/11 09:04)

If Historical Overrides/Interventions exist for an order, entering Y (Yes) at the prompt: “View Historical Overrides/Interventions for this order (Y/N)? Y//,” displays the Historical Pharmacist Intervention information:

```

=====
** Historical Pharmacist Interventions for this order **
=====
Intervention Date: 07/12/11 09:14
Provider: PSJPROVIDER,ONE Pharmacist: PSJPHARMACIST,ONE
Drug: METRONIDAZOLE 250MG TAB Instituted By: PHARMACY
Intervention: CRITICAL DRUG INTERACTION
Recommendation: OTHER Originating Package: INPATIENT
Other For Recommendation:
Testing 9 OTHER

```

Press RETURN to Continue or '^' to Exit :

```
=====
** Historical Provider Overrides for this order **
=====
```

```
Overriding Provider: PSJPROVIDER,ONE (PROVIDER)
Override Entered By: PSJPROVIDER,ONE (PROVIDER)
Date/Time Entered: 07/12/11 09:13
Override Reason: Testing 9 OTHER
```

```
CRITICAL drug-drug interaction: METRONIDAZOLE 250MG TAB and WARFARIN NA
(GOLDEN STATE) 2MG TAB [ACTIVE] - Concurrent use of anticoagulants with
metronidazole or tinidazole may result in reduced prothrombin activity and/or
increased risk of bleeding. - Monograph Available
```

```
CRITICAL drug-drug interaction: METRONIDAZOLE 250MG TAB and WARFARIN(GOLDEN
ST) 0.5MG(1/2X1MG) TAB [UNRELEASED] - Concurrent use of anticoagulants with
metronidazole or tinidazole may result in reduced prothrombin activity and/or
increased risk of bleeding. - Monograph Available
```

Intervention TIME displays to the right of the date (e.g., 01/18/11 09:04. Current Pharmacist Intervention fields and labels also display, when the fields are populated.



```
=====
** Current Pharmacist Interventions for this order **
=====
```

```
No Pharmacist Interventions to display
```

4.10.4 Dosing Order Checks

MOCHA v2.0 implements the first increment of dosage checks and introduces the Maximum Single Dose Check for simple and complex orders for both Outpatient Pharmacy and Inpatient Medications applications. MOCHA v2.1b implements the second increment of dosage checks and introduces the Max Daily Dose Check for simple orders for both Outpatient Pharmacy and Inpatient Medications applications. MOCHA v2.0 and MOCHA v2.1b use the same interface to First Databank (FDB) as MOCHA v1.0.



4.11 Check Drug Interactions [PSJ CHECK DRUG INTERACTION]

The Check Drug Interaction option allows a user to check for a drug interaction and Therapeutic Duplications between two or more drugs. This option shall be placed on the Unit Dose Medications [PSJU MGR] Menu, and the IV [PSJI MGR] Menu.

Example: Checking for drug interactions

```
Select IV Menu Option:  Check Drug Interaction
Drug 1:  CIMETIDINE 300MG TAB          GA301
        ...OK? Yes//   (Yes)

Drug 2: WARFARIN 5MG TAB
        Lookup: GENERIC NAME
WARFARIN 5MG TAB          BL110
        ...OK? Yes//   (Yes)

Drug 3:

Now Processing Enhanced Order Checks!  Please wait...

*** DRUG INTERACTION(S) ***
=====
***Critical*** with WARFARIN 5MG TAB and
                CIMETIDINE 300MG TAB

CLINICAL EFFECTS:  The pharmacologic effects of warfarin may be
increased resulting in severe bleeding.

=====
Press Return to Continue...:

Display Professional Interaction monograph? N// YES
DEVICE: HOME//   SSH VIRTUAL TERMINAL   Right Margin: 80//

-----
Professional Monograph
Drug Interaction with WARFARIN 5MG TAB and CIMETIDINE 300MG TAB
This information is generalized and not intended as specific medical
advice. Consult your healthcare professional before taking or
discontinuing any drug or commencing any course of treatment.

MONOGRAPH TITLE:  Anticoagulants/Cimetidine

SEVERITY LEVEL:  2-Severe Interaction: Action is required to reduce
the risk of severe adverse interaction.

MECHANISM OF ACTION:  Inhibition of warfarin hepatic metabolism. The
effect appears to be greater on the less active R-warfarin than on the
S-warfarin.

CLINICAL EFFECTS:  The pharmacologic effects of warfarin may be
increased resulting in severe bleeding.

Press Return to Continue or "^" to Exit:

Professional Monograph
Drug Interaction with WARFARIN 5MG TAB and CIMETIDINE 300MG TAB

PREDISPOSING FACTORS:  None determined.

PATIENT MANAGEMENT:  Coadministration of cimetidine and warfarin
should be avoided. If they are administered concurrently, monitor
anticoagulant activity and adjust the dose of warfarin indicated. The
H-2 antagonists famotidine and nizatidine are unlikely to interact
with warfarin. The time of highest risk for a coumarin-type drug
interaction is when the precipitant drug is initiated or discontinued.
Contact the prescriber before initiating, altering the dose or
discontinuing either drug.
```

DISCUSSION: The majority of drug interaction reports involving H-2 antagonists and warfarin have occurred with cimetidine. Reports of a possibly significant interaction between ranitidine and warfarin have been equivocal. Famotidine and nizatidine do not appear to affect prothrombin time.

Press Return to Continue or "^" to Exit:

Professional Monograph

Drug Interaction with WARFARIN 5MG TAB and CIMETIDINE 300MG TAB

REFERENCES:

- 1.Silver BA, Bell WR. Cimetidine potentiation of the hypoprothrombinemic effect of warfarin. Ann Intern Med 1979 Mar;90(3):348-9.
- 2.Wallin BA, Jacknowitz A, Raich PC. Cimetidine and effect of warfarin. Ann Intern Med 1979 Jun;90(6):993.
- 3.Serlin MJ, Sibeon RG, Breckenridge AM. Lack of effect of ranitidine on warfarin action. Br J Clin Pharmacol 1981 Dec;12(6):791-4.
- 4.Kerley B, Ali M. Cimetidine potentiation of warfarin action. Can Med Assoc J 1982 Jan 15;126(2):116.
- 5.Desmond PV, Mashford ML, Harman PJ, Morphett BJ, Breen KJ, Wang YM. Decreased oral warfarin clearance after ranitidine and cimetidine. Clin Pharmacol Ther 1984 Mar;35(3):338-41.
- 6.Toon S, Hopkins KJ, Garstang FM, Rowland M. Comparative effects of ranitidine and cimetidine on the pharmacokinetics and pharmacodynamics of warfarin in man. Eur J Clin Pharmacol 1987;32(2):165-72.

Press Return to Continue or "^" to Exit:

Professional Monograph

Drug Interaction with WARFARIN 5MG TAB and CIMETIDINE 300MG TAB

- 7.Cournot A, Berlin I, Sallord JC, Singlas E. Lack of interaction between nizatidine and warfarin during chronic administration. J Clin Pharmacol 1988 Dec;28(12):1120-2.
- 8.Hussey EK, Dukes GE. Do all histamine2-antagonists cause a warfarin drug interaction?. DICP 1989 Sep;23(9):675-9.
- 9.Hunt BA, Sax MJ, Chretien SD, Gray DR, Frank WO, Lalonde RL. Stereoselective alterations in the pharmacokinetics of warfarin enantiomers with two cimetidine dose regimens. Pharmacotherapy 1989; 9(3):184.
- 10.Baciewicz AM, Morgan PJ. Ranitidine-warfarin interaction. Ann Intern Med 1990 Jan 1;112(1):76-7.

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Enter RETURN to continue or '^' to exit:

Display Professional Interaction monograph? N/ O

4.12 Pharmacy - Edit Clinic Med Orders Start Date/Time [PSJ ECO]

The *Edit Clinic Med Orders Start Date/Time* [PSJ ECO] option allows the user to change the selected date/range of all active or non-verified clinic orders (Unit Dose, IV, IVP/IVPB) to a new single START DATE/TIME for a patient(s) within a selected clinic. This option provides:

- An action that allows the user to edit the Start Date/Time of a patient order.
- Patient selection by medication order start date and by Clinic Group, Clinic, or Patient.

- The Pharmacy User is warned if they attempt to enter a start date more than 7 days in the future.
- A patient profile display of active or non-verified Clinic medication orders for date/time range selected.
- Automatic retrieval, one patient at a time, based on the type of patient selection, when editing a medication Start Date/Time for one or multiple patient Clinic medication orders. Date/Time edits are confirmed for each patient.
- Actions to view the patient’s full order entry profile, details of specific clinic and non-clinic orders.
- Various warnings and message prompts to the user when certain profile or order conditions occur, allowing the user to view, exit, or proceed with the edit process.
- The *Edit Clinic Med Orders Start Date/Time* [PSJ ECO] option has changes to reflect the new fields related to medications requiring removal. The user will be directed to go to the [Inpatient Order Entry \[PSJ OE\]](#) option to modify the orders that contain medications requiring removal.

4.12.1 Search Med Orders Date Entry

A search med orders date entry prompt is the first prompt from the *Edit Clinic Med Orders Start Date/Time* [PSJ ECO] menu option:

- The Begin Search Date defaults to “ TODAY//” (current date).
- The End Search Date defaults to the entered Begin Search Date. The End Search Date shall not precede the Begin Search Date.

Example: Prompt that End Search Date Shall Not Precede Begin Search Date

```
Begin Search Date: TODAY//06/01 (JUN 01, 2012)
End Search Date: Jun 01, 2012// 05/15 (MAY 15, 2012)
Response must not precede 6/1/2012.
End Search Date: Jun 01, 2012//
```

- Time entry with the date is optional.
- The search results include all active or non-verified clinic orders within the selected date range, not just those with a start date within the range. Current business rules apply for date/time validation entry.

Example: Prompt to Search Begin and End Dates

```
Search for Active and Non-Verified CLINIC Medication Orders
that fall within the date range selected below:
Begin Search Date: TODAY// (default to current date)
End Search Date: (default to the entered Begin Search Date:)
```


4.12.2 Search by Clinic, Clinic Group or Patient

The entry prompt “Search by CLINIC (C), CLINIC GROUP (G), or PATIENT (P):” allows the user to search by clinic, clinic group or patient, with no default, from the *Edit Clinic Med Orders Start Date/Time* [PSJ ECO] menu option.

Example: Prompt to Select Clinic, Clinic Group or Patient

```
Search by CLINIC (C), CLINIC GROUP (G) or PATIENT (P):
```

The appropriate entry prompt “C,” “G,” or “P” is provided and allows the user to enter a Clinic, Clinic Group or Patient name. Current business rules apply to the entry of clinic name, clinic group or patient name.

Table: Prompt Entry for Clinic, Clinic Group or Patient

| Entry Result | System Prompt | User Entry |
|--------------|-----------------------|--|
| C | “SELECT CLINIC:” | Clinic name – case inclusive (display clinics that are marked allow clinic orders) |
| G | “SELECT CLINIC GROUP” | Clinic group name |
| P | “SELECT PATIENT:” | Patient name |

The entry prompt, “SELECT CLINIC:” or “SELECT PATIENT:” is repeated allowing the user to select multiple clinics or multiple patients by entering individual names for the search. A blank return stops the search, and the process continues.

4.12.3 Select Patient from Clinic

If the user selects “Clinic,” the numbered list of active patients’ full names displays in alphabetical order by last name for all active or non-verified clinic orders (Unit Dose, IV, IVP, IVPB) from the med orders date/time range entered.

Example: Display Patient List

```
CLINIC ORDERS - PATIENT CLINIC
No.    PATIENT
-----
1      CPRSPATIENT, ONE (0091)
2      CPRSPATIENT, TWO (5555)
3      CPRSPATIENT, THREE (0038)
Select 1 - 3:
```

If the user selects “Clinic,” an entry prompt of “Select N – N:” displays. N – N represents the begin/end number of displayed patients. The user may select one or multiple patients. Current business rules apply to numbered entry list selection.

Example: Prompt to Select Patient

```
Select 1 - 1:
```

4.12.4 View Patient Clinic Order Entry Profile

A Clinic Order Entry Patient profile view of active followed by non-verified orders, is provided based on the filter selection choices previously made.

Example: Display Clinic Order Entry Patient Profile

```
Clinic Order Entry          May 06, 2011@09:46:50          Page:    1 of    2
CPRSPATIENT,ONE           Ward: 3 North
PID: 666-01-0123           Room-Bed: 123-A           Ht (cm): _____ (_____)
DOB: 10/10/58 (52)         Wt (kg): _____ (_____)
Sex: MALE                  Last Admitted: 03/28/11
Dx: SICK                   Discharged: 03/28/11

-----
CLINIC ORDERS: May 10, 2013 to May 12, 2013@24:00
-----
PATIENT CLINIC -----
-----
1  FLUOROURACIL INJ,SOLN           C  05/12/2013  05/17/2013  A
   Give: IV ONCE
2  ABACAVIR/LAMIVUDINE TAB        C  05/10/2013  05/17/2013  N
   Give: 1 TABLET PO BID

+      Enter ?? for more actions
ES  Edit Start Date      VP  View Profile
VD  View Order Detail    CD  Change Date Range
Select Action:Quit//
```



The following user actions are provided in the Clinic Order Entry Patient profile:

- ES Edit Start Date
- VD View Order Detail
- VP View Profile
- CD Change Date Range
- Quit

4.12.4.1 ES Edit Start Date

The “ES” (Edit Start Date) action allows the user to select medication orders to edit. The system provides an entry prompt “Select Orders: (N-N):” when ES is entered. (N - N) represents the begin/end number from the displayed number list in the Clinic Order Entry profile. The system proceeds to entry prompt “NEW START DATE/TIME:”

4.12.4.2 VD View Order Detail

The “VD” (View Order Detail) action allows the user to select the medication orders to view. The following attributes are provided:

- View Only

- No Patient Demographics
- Order Details Only
- Allowed Action of QUIT

Example: Display VD View Order Detail

```

Patient: CPRSPATIENT, THREE                               Status: ACTIVE
* (1) Additives:                    Order number: 1        Type: ADMIXTURE
      5-FLUOURACIL 11 MG
* (2) Solutions:
      DEXTROSE 20% DEXTROSE TEST 500 ML
      Duration:
* (3) Infusion Rate: 11 ml/hr
* (4) Start: 04/12/2012 09:39
* (5) Med Route: IM
* (6) Stop: 04/13/2012 24:00
* (7) Schedule:
      Last Fill: 04/12/2012 09:44
* (8) Admin Times:
      Quantity: 1
* (9) Provider: MACOY, BONES [es]
      Cum. Doses: 1
* (10) Other Print: (11) Remarks :
      IV Room: TST ISC ROOM
      Entry By: PROVIDER, ONE
      Entry Date: 04/12/12 09:44
Enter RETURN to continue or '^' to exit: Select Action: Quit// Quit

```

4.12.4.3 VP View Profile

The “VP” (View Profile) action allows the user to view the order profile for all medication orders. The following attributes are provided:

- Entire Patient Profile Non-Clinic and Clinic medication orders are displayed.
- This is a display only action.
- The Quit action is allowed.

Medication orders display in the following sequence:

- Non-clinic inpatient medication orders display in the usual manner.
- Clinic medication orders display by clinic name in alphabetical order as follows:
 - Pending
 - Non-verified
 - Active
 - Discontinued/expired
- Non-active, non-clinic medication orders display at the bottom of the profile list.

Example: Display VP View Profile

```

                                I N P A T I E N T   M E D I C A T I O N
S      03/06/13  10:17
                                VAMC:  ALBANY (500)
-----
TESTPATNM,PATIENT                               Ward: IP WARD
PID: 666-00-0195      Room-Bed: * NF *           Ht (cm): _____ (_____)
DOB: 07/07/67 (45)           Wt (kg): _____ (_____)
Sex: FEMALE
Dx: SICK
CrCL: <Not Found> (CREAT: Not Found)           Admitted: 10/31/94
                                           Last transferred: 05/07/03
                                           BSA (m2): _____

Allergies: CEFAZOLIN, PENICILLIN, VALIUM, WARFARIN, ASPIRIN,
           BISMUTH SUBSALICYLATE, EGGS, LACTOSE, MILK, BACON ( FREE TEXT ),
           ICE CREAM, STRAWBERRIES

```

```

NV Aller.: CIMETIDINE
ADR: AMPICILLIN
----- A C T I V E -----
1      BACLOFEN TAB                R 03/04/2013 03/15/2013 A
      Give: 10MG PO Q4H
----- N O N - V E R I F I E D -----
2      CEFAMANDOLE INJ            C 02/13/2013 03/17/2013 N
      Give: 10 GM IVP Q3D@0900
3      5-FLUOURACIL 100 MG        C 02/15/2013 03/17/2013 N
      in DEXTROSE 10% 1000 ML    200 ml/hr
----- P E N D I N G -----
4      BACLOFEN TAB                C *****          ***** P
      Give: 20MG PO BID
5      CAPTOPRIL TAB              C *****          ***** P
      Give: 25MG PO BID
6      FLUOROURACIL INJ,SOLN      C *****          ***** P
      Give: 100MG/2ML IV BID
----- CLINIC NAME -----
7      BACLOFEN TAB                C 02/25/2013 03/27/2013 A
      Give: 10MG ORALSL Q4H
      Instructions too long. See Order View or BCMA for full
      text.
View ORDERS (1-7):

```

4.12.4.4 CD Change Date Range

The “CD” (Change Date Range) action in the Clinic Order Entry view allows the user to change the search date range for the current patient’s clinic orders. The user may begin a new search by entering a new Begin Search Date and End Search Date for the current patient and continue with the ECO process. The original date range entry remains unchanged for other patients after completing the CD action for the current patient. To assist the user in selecting clinics and patients, clinics are displayed alphabetically along with the associated patients, within the selected date range and clinic group. The Clinic Order Entry profile displays after the completion of the patient selection for all the selected clinics.

Example: Clinic and Patient Display

```

Search by CLINIC (C), CLINIC GROUP (G), or PATIENT (P) : gROUP
Select CLINIC GROUP: gROUP ONE

CLINIC ORDERS - BECKY'S CLINIC

No.    PATIENT
-----
1      CPRSPATIENT, ONE (0091)
2      CPRSPATIENT, TWO (5555)
3      CPRSPATIENT, THREE (0038)
4      CPRSPATIENT, FOUR (0237)

Select 1 - 4: 3

CLINIC ORDERS - CLINIC (45)

No.    PATIENT
-----
1      CPRSPATIENT, TWO (5555)
2      CPRSPATIENT, THREE (0038)
Select 1 - 2: 1

```

If the user selects by “Patient,” and no active/non-verified orders exist within the entered date range, the below message displays.

Example: No Active/Non-Verified Clinic Orders by Patient Message

```
No ACTIVE AND/OR NON-VERIFIED Clinic Orders found for this patient
```

If the user selects by “Clinic,” and no active/non-verified orders exist within the entered date range, the below message displays.

Example: No Active/Non-Verified Clinic Orders by Clinic Message

```
NO ACTIVE AND/OR NON-VERIFIED ORDERS FOR SELECTED CLINIC
```

4.12.4.5 Quit

The entry prompt “Select Action: Quit//” displays on the Clinic Order Entry Patient profile after the Inpatient Medications profile display for the selected patient(s). The number entered forces the use of the VD action with a “Enter RETURN to continue or ‘^’ to exit” prompt.

Example: Entering a Number Response to “Select Action: Quit//” Prompt

```
Select Action: Quit// 1
< -----
Patient: BCMAPATIENT,EIGHT                               Status: ACTIVE
Orderable Item: ATENOLOL TAB
Instructions:
Dosage Ordered: 100MG
Duration:                                                Start: 06/18/2012  11:00
Med Route: ORAL (PO)                                     Stop: 06/22/2012  11:00
Schedule Type: CONTINUOUS
Schedule: BID
Admin Times: 09-17
Provider: PROVIDER, ONE [s]
Dispense Drugs                                           U/D   Units  Units  Inactive
-----
ATENOLOL 100MG TAB                                     1     0     0
Self Med: NO
Entry By: MCCOY, BONES                                   Entry Date: 05/31/12  12:28>
Enter RETURN to continue or '^' to exit:
```

4.12.5 Entering a New Start Date/Time

The entry prompt “NEW START DATE/TIME:” displays allowing the user to enter a new Start Date/Time. After the user enters a new Start Date/Time, a prompt displays giving the user the ability to change the calculated Stop Date/Time.

Example: Prompt Entry for New Start Date/Time

```
NEW START DATE/TIME: 05/16/2011@1100
```

4.12.6 Order Entry View with New Start Date

The Clinic Order Entry view, based on Begin search date and the NEW end date, if greater than the original entered end date of the search, re-displays after the user enters “YES” to the “CHANGE ALL START DATES/TIME TO” prompt.

Example: Display Clinic Order Entry with New Start Date

```

Clinic Order Entry          Apr 13, 2012@14:21:31          Page:    1 of    1
BCMAPATIENT,FIVE          Last Ward: 3 NORTH
PID: 000-00-5555          Last Room-Bed: 1-2          Ht(cm): _____ (_____)
DOB: 09/16/60 (51)          Wt(kg): _____ (_____)
Sex: MALE          Last Admitted: 12/05/08
Dx: FLUID IN LUNGS          Discharged: 04/10/12
          CLINIC ORDERS: Apr 20, 2013 to Apr 21, 2013@24:00
-----
- - - - - BECKY'S CLINIC - - - - -
1  DIPHENHYDRAMINE INJ,SOLN          C  04/21/2012  04/26/2012  N
   Give: 10MG IM WEEKLY
2  ACETAMINOPHEN TAB          R  04/20/2012  04/25/2012  N
   Give: 10 MG PO Q4H
- - - - - CLINIC (45) - - - - -
3  RANITIDINE TAB          C  04/20/2012  04/23/2012  N
   Give: 300 MG PO BID-AM
- - - - - CLINIC PATTERN 45 - - - - -
4  HEPARIN 11 ML (1)          ?  04/20/2012  04/21/2012  N
   in 5% DEXTROSE 50 ML 100 ml/hr
-----Enter ?? for more actions-----
ES  Edit Start Date          VD  View Order Detail          VP  View Profile
Select Action:Quit//

```

4.12.7 New Start Date Update Confirmation

After the user answers “YES” to the “Are you sure?” confirmation of the new Start Date/Time change, the prompt “NATURE OF ORDER: SERVICE CORRECTION//” displays for an ACTIVE Clinic Order, with a default of SERVICE CORRECTION.

Example: Nature of Order Prompt

```
NATURE OF ORDER: SERVICE CORRECTION//
```

The selected record(s), along with the applicable message for each order, is updated, using current business functionality.

Example: Update Message

```

Now working on order:
  BACLOFEN          07/01/12  11:11
  Give: 10 MG PO QID
NATURE OF ORDER: SERVICE CORRECTION//          S
...discontinuing original order...

...creating new order.....

Pre-Exchange DOSES:
-----
Now working on order:
  CEFAMANDOLE          05/22/12  08:00
  Give: 44 GM IV
...updating order.....
...updating OE/RR...

```

```

-----
Now working on order:
  DAPSONE                                04/23/12  12:00
  Give: 50 MG PO QAM

...updating order.....
...updating OE/RR...

-----
Now working on order:
  FLUOROURACIL                            05/20/12  12:00
  Give: 11 MG IM

...updating order.....
...updating OE/RR...

```

After the user enters “QUIT” or when editing by clinic with multiple patients, the system mimics the *Non-Verified/Pending Orders* [PSJU VBW] option when cycling through the remaining selected patient(s).



4.12.8 Conditional Messages Displaying after New Start Date

Individual message prompts may or may not be presented after the new start date/time is entered for the patient. These depend on various validations that are being checked which the user may need to review or act upon. None, one, or more messages may display depending upon the entry.

4.12.8.1 New Start Date No Earlier than Now

A change to a new start date, earlier than “NOW” is not allowed. If the new start date entered is earlier than “NOW” the following prompt displays: “Start Date/Time earlier than NOW is not allowed. Re-enter start date. Enter new Start Date/Time:”.

4.12.8.2 New Start Date beyond 365 Days

A change to a new Start DATE beyond 365 days is not allowed.

Example: Message Start Date Beyond 365 Days

```

Start Date cannot be more than 365 days from today. Re-enter Start Date.
Enter new Start Date/Time:

```



Note: The system cycles back to the enter new start/date prompt entry until the new start/date time is less than 365 days.

4.12.8.3 Other Orders Exist

The message below displays when orders exist for the date entered at the “new Start Date/Time:” prompt. The existing active orders also display.

Example: Message Other Orders Exist

```
* This patient has active order(s) on Jun 04, 2012. *
PROCHLORPERAZINE          06/01/12  11:11
  Give: 5 MG/1 ML IV WEEKLY
Do you want to view the profile?
```

- If the user answers “YES,” a Profile View for the selected orders for the Start Date/Time edit for the new date displays followed by the prompt to continue.

Example: Display View Profile for Selected Order

```
<begin profile display>
  VP view
<end profile display>

The following orders have been selected for Start Date/Time edit:
<selected orders listed>

  The Start Date/Time for the selected orders will be changed to <05/16/2012@11:00>.
Do you want to continue? //
```

- If the user answers “NO,” the “new Start Date/Time:” prompt to re-enter a new Start Date/Time displays.

4.12.8.4 New Start Date After One or More Stop Dates

The message below and prompt display, with no default, when the new start date is after one or more stop date(s).

Example: Display Start Date After Stop Date

```
* The new start date is after one or more stop date(s). *
  The stop date(s) will be automatically changed to reflect the new start date.
Do you want to view the profile?
```

- If the user answers “YES,” the process continues.
- If the user answers “NO,” the “new Start Date/Time:” prompt to re-enter a new Start Date/Time displays.

The selected changed med orders display followed by the message: “The Start Date/Time for the selected orders will now be changed to mm/dd/yy hh:mm (user entered Start Date/Time.) Are you sure?”

Example: Prompt to Confirm Changed Start Date

```
Selected Orders:          Current Start Date/Time
-----
< TRIHEXYPHENIDYL      04/09/12  07:53
```



```

Give: 10MG PO SU-MO-TU-WE-TH-FR-SA
BACLOFEN                                04/19/2012  11:11
Give: 20 MG PO Q2H >
-----
The Start Date/Time for the selected orders will
now be changed to <6/1/12  11:00>
Are you sure ?

```

The process returns to the “Enter a new Start Date/Time:” prompt. The existing business rule for a new order is used to calculate the med order stop date from the med start date.

4.12.9 Conditional Messages Displaying after Selection of Orders

The following individual message prompts may or may not be presented after the ES selection when selecting the clinic med order(s). These depend on various validations that are being checked which the user may need to review or act upon. None, one, or more messages may display depending upon the entry.

4.12.9.1 ON CALL Orders

ON CALL (OC) status can only be set for IV orders. If the user selects a Clinic IV order with an ON CALL status, the message: “Orders with ON CALL Status cannot be edited.....” displays. ES action changes to orders with ON CALL status are not allowed.

Example: Selecting ON CALL Orders

```

Select Action:Next Screen// es  Edit Start Date
Select Orders:  (1-5): 2

Orders with ON CALL Status cannot be edited - no changes will be applied
to any of the following orders with ON CALL status:
ON CALL Status orders:                Current Start / Stop Dates
-----
< GENTAMICIN                          07/18/12   07/23/12
  in  INFUSE OVER 5 MINUTES>
Press Return to continue...

```

4.12.9.2 ON HOLD Orders

If the user selects ON HOLD orders, the message: “ON HOLD orders cannot be edited....”displays. ES action changes to orders ON HOLD are not allowed.

Example: Selecting ON HOLD Orders

```

Select Action:Next Screen// es  Edit Start Date
Select Orders:  (1-3): 1-2

ON HOLD orders cannot be edited - no changes will be applied
to any of the following ON HOLD orders:
ON HOLD orders:                Current Start / Stop Dates
-----
<ACETAMINOPHEN                        07/21/12   07/26/12
  Give: 10 MG PO Q4H>
Press Return to continue...

```

4.12.9.3 Complex Orders

If the user selects complex orders, the message: “Complex Orders cannot be edited – no changes will be applied to any of the following Complex order components:.....” displays. ES action changes to complex orders are not allowed.

Example: Selecting Complex Orders

```
Select Action:Next Screen// es Edit Start Date
Select Orders: (1-5): 2

Complex Orders cannot be edited - no changes will be applied
to any of the following Complex order components:
Complex Component (Child) Orders:          Current Start Date/Time
-----
<LANOLIN                                06/01/2012 17:00
    Give: 25 MG TOP 5XD>
Press Return to continue...
```

4.12.9.4 Orders for More than One Clinic

If the user selects orders for more than one clinic, the message: “You have selected orders from different clinics do you want to continue?” displays:

- If the user answers “NO,” the Clinic Order Entry profile view of order(s) for the selected patient(s) re-displays.
- If the user answers “YES,” the process continues.

4.12.9.5 Orders with different Start Date/Times

If the user selects orders for more than one Start Date/Time, the message: “You have selected orders with different Start Date/Time, do you want to proceed?” displays:

- If the user answers “NO,” the Clinic Order Entry profile view of order(s) for the selected patient(s) re-displays.
- If the user answers “YES,” the process continues.

4.12.9.6 Orders for More than one Clinic with Different Start Date/Times

If the user selects orders for more than one clinic with different Start Date/Times, the message below displays:

Example: Orders for More than One Clinic with Different Start Date/Times

```
You have selected orders from different clinics
and with different Start Date/Times.
Do you want to continue?
```

- If the user answers “NO,” the Clinic Order Entry profile view of order(s) for the selected patient(s) re-displays.
- If the user answers “YES,” the process continues.

4.12.9.7 System Auto Adjusts the Start Time to the Current Time

The system will auto adjust the start date/time to “NOW” for pending CPRS clinic orders with a start/date time in the past.

For example, when the order was created in CPRS, the current ‘NOW’ Start Time was 13:02, but when the pending order is selected in Inpatient Medications, the current ‘NOW’ Start Time is 13:12.

5 Maintenance Options

All of these maintenance options are located on the *Unit Dose Medications* menu.

5.1 Edit Inpatient User Parameters[PSJ UEUP]

The *Edit Inpatient User Parameters* option allows users to edit various Inpatient User parameters. The prompts that will be encountered are as follows:

- “PRINT PROFILE IN ORDER ENTRY:”
Enter **YES** for the opportunity to print a profile after entering Unit Dose orders for a patient.
- “INPATIENT PROFILE ORDER SORT:”
This is the sort order in which the Inpatient Profile will show inpatient orders. The options will be sorted either by medication or by start date of order. Entering the words “**Medication Name**” (or the number **0**) will show the orders within schedule type (continuous, one-time, and then PRN) and then alphabetically by drug name. Entering the words “**Start Date of Order**” (or the number **1**) will show the order chronologically by start date, with the most recent dates showing first and then by schedule type (continuous, one-time, and then PRN).



- “LABEL PRINTER:”
Enter the device on which labels are to be printed.
- “USE WARD LABEL SETTINGS:”
Enter **YES** to have the labels print on the printer designated for the ward instead of the printer designated for the pharmacy.

5.2 Edit Patient’s Default Stop Date [PSJU CPDD]



The “UD DEFAULT STOP DATE/TIME:” prompt accepts the date and time entry to be used as the default value for the STOP DATE/TIME of the Unit Dose orders during order entry and renewal processes. This value is used only if the corresponding ward parameter is enabled. The order entry and renewal processes will sometimes change this date and time.



Note: If the Unit Dose order, being finished by the user, is received from CPRS and has a duration assigned, the UD DEFAULT STOP DATE/TIME is displayed as the Calc Stop date/time.

When the SAME STOP DATE ON ALL ORDERS parameter is set to yes, the module will assign a default stop date for each patient. This date is initially set when the first order is entered for the patient, and can change when an order for the patient is renewed. This date is shown as the default value for the stop date of each order entered for the patient. However, if a day or dose limit exists for the selected Orderable Item, and the limit is less than the default stop date, the earlier stop date and time will be displayed.

6 Output Options

Most of the Output Options are located under the *Reports Menu* option on the *Unit Dose Medications* menu. The other reports are located directly on the *Unit Dose Medications* menu.

6.1 Patient Profile (Unit Dose) [PSJU PR]

The *Patient Profile (Unit Dose)* [PSJU PR] option allows a user to print a profile (list) of a patient's orders for the patient's current or last (if patient has been discharged) admission, by group (**G**), ward (**W**), clinic (**C**), or patient (**P**). When group is selected, a prompt to select by ward group (**W**) or clinic group (**C**) displays. If the user's terminal is selected as the printing device, this option will allow the user to select any of the printed orders to be shown in complete detail, including the activity logs, if any.

The *Patient Profile (Unit Dose)* [PSJU PR] option also allows for viewing a list of clinic orders. Clinic orders are displayed separately from non-clinic orders.

Example: Patient Profile

```
Select Unit Dose Medications Option: Patient Profile (Unit Dose)
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): P Patient <Enter>
Select PATIENT: PSJPATIENT1,ONE      000-00-0001   08/18/20   1 EAST
Select another PATIENT: <Enter>
SHORT, LONG, or NO Profile? SHORT// <Enter> SHORT
Show PROFILE only, EXPANDED VIEWS only, or BOTH: PROFILE// <Enter>
Select PRINT DEVICE: <Enter> NT/Cache virtual TELNET terminal

                U N I T   D O S E   P R O F I L E                09/13/00  16:20
                S A M P L E   H E A L T H C A R E   S Y S T E M
-----
PSJPATIENT1,ONE                Ward: 1 EAST
PID: 000-00-0001                Room-Bed: B-12                Ht (cm): _____ (_____)
DOB: 08/18/20 (80)                Wt (kg): _____ (_____)
Sex: MALE                        Admitted: 05/03/00
Dx: TESTING
CrCL: <Not Found> (CREAT: Not Found)                BSA (m2): _____
Allergies: No Allergy Assessment
ADR:
----- A C T I V E -----
1  -> AMPICILLIN CAP                C  09/07/2000  09/21/2000  A  NF
    Give: 500MG PO QID
2  -> HYDROCORTISONE CREAM, TOP    C  09/07/2000  09/21/2000  A  NF
    Give: 1% TOP QDAILY
3  -> PROPRANOLOL 10MG U/D        C  09/07/2000  09/21/2000  A  NF
    Give: PO QDAILY

View ORDERS (1-3): 1

-----report continues-----
```

Example: Patient Profile (continued)

```
-----
Patient: PSJPATIENT1,ONE                               Status: ACTIVE
Orderable Item: AMPICILLIN CAP
Instructions:
Dosage Ordered: 500MG
  Duration:                                             Start: 09/07/2000 15:00
  Med Route: ORAL (PO)                               Stop: 09/21/2000 24:00
Schedule Type: CONTINUOUS
Schedule: QID
Admin Times: 01-09-15-20
Provider: PSJPROVIDER,ONE [w]
-----
Dispense Drugs                U/D  Units  Units  Inactive
                               U/D  Disp'd Ret'd  Date
-----
AMPICILLIN 500MG CAP         1    0     0
-----
ORDER NOT VERIFIED
Self Med: NO
Entry By: PSJPROVIDER,ONE                               Entry Date: 09/07/00 13:37
```

6.2 Reports Menu [PSJU REPORTS]

The *Reports Menu* option contains various reports generated by the Unit Dose package.



Example: Reports Menu

```
Select Reports Menu Option: ?
7      7 Day MAR
14     14 Day MAR
24     24 Hour MAR
AP1    Action Profile #1
AP2    Action Profile #2
        AUTHORIZED Absence/Discharge Summary
        Extra Units Dispensed Report
        Free Text Dosage Report
        INpatient Stop Order Notices
        Medications Due Worksheet
        Patient Profile (Extended)
```

6.2.1 24 Hour MAR [PSJU 24H MAR]

The *24 Hour MAR* option creates a report that can be used to track the administration of a patient's medications over a 24-hour period. The 24 Hour MAR report includes:

- Date/time range covered by the MAR using a four-digit year format
- Institution Name
- Ward/Clinic*
- Patient demographic data

- Time line
- Information about each order

*For Outpatients receiving Inpatient Medication orders in an appropriate clinic.

The order information consists of:

- Order date
- Start date
- Stop date
- Schedule type (a letter code next to the administration times)
- Administration times (will be blank if an IV order does not have a schedule)
- Drug name
- Strength (if different from that indicated in drug name)
- Medication route abbreviation
- Schedule
- Verifying pharmacist's and nurse's initials

The MAR is printed by group (G), ward (W), clinic (C) or patient (P). When group is selected, a prompt to select by ward group (W) or clinic group (C) displays. If the user chooses to print by patient, the opportunity to select more than one patient will be given. The system will keep prompting, "Select another PATIENT:". If a caret (^) is entered, the user will return to the report menu. When all patients are entered, press <Enter> at this prompt to continue.



Note: If the user chooses to select by ward, administration teams may be specified and the MAR may be sorted by administration team, and then by room-bed or patient name. The default for the administration team is ALL and multiple administration teams may be entered. If selecting by ward group, the MAR may be sorted by room-bed or patient name. When the report is printed by clinic or clinic group, and the order is for an outpatient, the report leaves Room/Bed blank.

When selecting by Ward, Ward Group, Clinic, or Clinic Group, the following prompts are included. All orders for a patient are grouped together by the patient's name, regardless of location.

Select by Ward:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): WARD
Include Clinic Orders?
```

Entering **YES** for Clinic Orders prints both ward and clinic orders for patients on a ward. Entering **NO** for Clinic Orders prints only the ward orders.

Select by Ward Group:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): GROUP
Select by WARD GROUP (W) or CLINIC GROUP (C): WARD

Include Clinic Orders?
```

Entering **YES** for Clinic Orders prints both ward and clinic orders for patients in a Ward Group.
Entering **NO** for Clinic Orders prints only the ward orders for patients in a Ward Group.

Select by Clinic:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): CLINIC

Include Ward Orders?
```

Entering **YES** for Ward Orders prints both clinic and ward orders for patients in a clinic.
Entering **NO** for Ward Orders prints only the clinic orders.

Select by Clinic Group:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): GROUP
Select by WARD GROUP (W) or CLINIC GROUP (C): CLINIC

Include Ward Orders?
```

Entering **YES** for Ward Orders prints both clinic and ward orders for patients in a Clinic Group.
Entering **NO** for Ward Orders prints only the clinic orders for patients in a Clinic Group.

There are six medication choices. The user may select multiple choices of medications to be printed on the 24 Hour MAR. Since the first choice is ALL Medications, the user will not be allowed to combine this with any other choices. The default choice is “Non-IV Medications only” if:

1. The MAR ORDER SELECTION DEFAULT parameter was not defined.
2. Selection by Ward group.
3. Selected by patients and patients are from different wards.

The MAR is separated into two sheets. The first sheet is for continuous medications and the second sheet is for one-time and PRN medications. When the 24 Hour MAR with orders is run, both sheets will print for each patient, even though the patient might only have one type of order. The user can also print blank MARs and designate which sheets to print. The user can print continuous medication sheets only, PRN sheets only, or both. The blank MARs contain patient demographics, but no order data. Order information can be added manually or with labels.

Each sheet of the 24 Hour MAR consists of three parts:

1. The top part of each sheet contains the patient demographics.

2. The main body of the MAR contains the order information and an area to record the medication administration.
 - a. The order information prints on the left side of the main body, and is printed in the same format as on labels. Labels can be used to add new orders to this area of the MAR (Labels should never be placed over order information already on the MAR). Renewal dates can be recorded on the top line of each order.
 - b. The right side of the main body is where the actual administration is to be recorded. It is marked in one-hour increments for simplicity.
3. The bottom of the form allows space for signatures/titles, initials for injections, allergies, injection sites, omitted doses, reason for omitted doses, and initials for omitted doses.

At the “Enter START DATE/TIME for 24 Hour MAR:” prompt, indicate the date and the time of day, in military time, the 24 Hour MAR is to start, including leading and trailing zeros. The time that is entered into this field will print on the 24 Hour MAR as the earliest time on the time line. If the time is not entered at this prompt, the time will default to the time specified in the ward parameter, “START TIME OF DAY FOR 24 HOUR MAR:”. If the ward parameter is blank, then the time will default to 0:01 a.m. system time.

Please keep in mind that the MAR is designed to print on stock 8 ½” by 11” paper at 16 pitch (6 lines per inch).



Example: 24 Hour MAR

```
Select Reports Menu Option: 24 24 Hour MAR
Select the MAR forms: 3// ?

  Select one of the following:
  1      Print Blank MARs only
  2      Print Non-Blank MARs only
  3      Print both Blank and Non-Blank MARs

Select the MAR forms: 3// <Enter> Print both Blank and Non-Blank MARs

Enter START DATE/TIME for 24 hour MAR: 090700@1200 (09/07/00@12:00)

Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): PATIENT <Enter>

Select PATIENT:      PSJPATIENT1,ONE      000-00-0001      08/18/20      1 EAST

Select another PATIENT: <Enter>
Enter medication type(s): 2,3,6// ?

1. All medications
2. Non-IV medications only
3. IVPB (Includes IV syringe orders with a med route of IV or IVPB.
   All other IV syringe orders are included with non-IV medications).
4. LVPs
5. TPNs
6. Chemotherapy medications (IV)
```


Example: 24 Hour MAR (continued)

| CONTINUOUS SHEET | | 24 HOUR MAR | | 09/07/2000 12:00 through 09/08/00 11:59 | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|----------------------------|-------------------------------------|---|----|-----------------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| SAMPLE HEALTHCARE SYSTEM | | | | Printed on 09/20/00 16:15 | | | | | | | | | | | | | | | | | | | | | | | |
| Name: PSJPATIENT1,ONE | | Weight (kg): _____ (_____) | | Ward: 1 EAST | | | | | | | | | | | | | | | | | | | | | | | |
| PID: 000-00-0001 DOB: 08/18/1920 (80) | | Height (cm): _____ (_____) | | Room-Bed: B-12 | | | | | | | | | | | | | | | | | | | | | | | |
| Sex: MALE Dx: TESTING | | | | Admitted: 05/03/2000 13:29 | | | | | | | | | | | | | | | | | | | | | | | |
| Allergies: No Allergy Assessment ADR: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order | Start | Stop | Admin Times | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| 09/07 | 09/07 15:00 | 09/21/00 24:00 (A9111) | 01 09 C 15 20 | | | | 15 | | | | | 20 | | | | | 01 | | | | | | | | | | 09 |
| AMPICILLIN CAP Give: 500MG PO QID | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPH: PI RN: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09/07 | 09/07 15:00 | 09/14/00 16:54 (A9111) | 01 09 C 15 20 | | | | 15 | | | | | 20 | | | | | 01 | | | | | | | | | | 09 |
| AMPICILLIN 1 GM in 0.9% NAACL 100 ML IVPB QID See next label for continuation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THIS IS AN INPATIENT IV EXAMPLE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPH: PI RN: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:00 (A9111) | C 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| HYDROCORTISONE CREAM, TOP Give: 1% TOP QDAILY | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPH: PI RN: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:50 (A9111) | C 09 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| METHYLPREDNISOLNE INJ Give: 500MG IV Q12H THIS IS AN INPATIENT IV EXAMPLE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPH: MLV RN: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:50 (A9111) | C 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| METHYLPREDNISOLNE INJ Give: 1000MG IV QDAILY THIS IS AN INPATIENT IV EXAMPLE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPH: MLV RN: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIGNATURE/TITLE | INIT | ALLERGIES | INJECTION SITES | MED/DOSE OMITTED | | REASON | INIT | | | | | | | | | | | | | | | | | | | | |
| | | | Indicate RIGHT (R) or LEFT (L) | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1. DELTOID | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2. ABDOMEN | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3. ILIAC CREST | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4. GLUTEAL | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 5. THIGH | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | PRN: E=Effective N=Not Effective | | | | | | | | | | | | | | | | | | | | | | | | |
| PSJPATIENT1,ONE | | 000-00-0001 | Room-Bed: B-12 | PAGE: 1 | | VA FORM 10-2970 | | | | | | | | | | | | | | | | | | | | | |

-----report continues-----

6.2.2 7 Day MAR [PSJU 7D MAR]

The *7 Day MAR* option creates a report form that can be used to track the administration of patients' medications.

The 7 Day MAR report includes:

- Date/time range covered by the MAR using a four-digit year format
- Institution Name
- Ward/Clinic*
- Patient demographic data
- Time line
- Information about each order

*For Outpatients receiving Inpatient Medication orders in an appropriate clinic.

The order information consists of:

- Order date
- Start date
- Stop date
- Schedule type (a letter code next to the administration times)
- Administration times (will be blank if an IV order does not have a schedule)
- Drug name
- Strength (if different from that indicated in drug name)
- Medication route abbreviation
- Schedule
- Verifying pharmacist's and nurse's initials

The MAR is printed by group (G), ward (W), clinic (C) or patient (P). When group is selected, a prompt to select by ward group (W) or clinic group (C) displays. If the user chooses to print by patient, the opportunity to select more than one patient will be given. The system will keep prompting, "Select another PATIENT:". If a caret (^) is entered, the user will return to the report menu. When all patients are entered, press <Enter> at this prompt to continue.



Note: If the user chooses to select by ward, administration teams may be specified and the MAR may be sorted by administration team, and then by room-bed or patient name. The default for the administration team is ALL and multiple administration teams may be entered. If selecting by ward group the MAR may be sorted by room-bed or patient name. When the report is printed by clinic or clinic group, and the order is for an outpatient, the report leaves Room/Bed blank.

When selecting by Ward, Ward Group, Clinic, or Clinic Group, the following prompts are included. All orders for a patient are grouped together by the patient's name, regardless of location.

Select by Ward:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): WARD
```

```
Include Clinic Orders?
```

Entering **YES** for Clinic Orders prints both ward and clinic orders for patients on a ward.
Entering **NO** for Clinic Orders prints only the ward orders.

Select by Ward Group:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): GROUP  
Select by WARD GROUP (W) or CLINIC GROUP (C): WARD
```

```
Include Clinic Orders?
```

Entering **YES** for Clinic Orders prints both ward and clinic orders for patients in a Ward Group.
Entering **NO** for Clinic Orders prints only the ward orders for patients in a Ward Group.

Select by Clinic:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): CLINIC
```

```
Include Ward Orders?
```

Entering **YES** for Ward Orders prints both clinic and ward orders for patients in a clinic.
Entering **NO** for Ward Orders prints only the clinic orders.

Select by Clinic Group:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): GROUP  
Select by WARD GROUP (W) or CLINIC GROUP (C): CLINIC
```

```
Include Ward Orders?
```

Entering **YES** for Ward Orders prints both clinic and ward orders for patients in a Clinic Group.
Entering **NO** for Ward Orders prints only the clinic orders for patients in a Clinic Group.

There are six medication choices. The user may select multiple choices of medications to be printed on the 7 Day MAR. Since the first choice is ALL Medications, the user will not be allowed to combine this with any other choices. The default choice is “Non-IV Medications only” if:

1. The MAR ORDER SELECTION DEFAULT parameter was not defined.
2. Selection by Ward group.
3. Selected by patients and patients are from different wards.

The 7 Day MAR option also allows the nurse to choose whether to print one of the two sheets, continuous, PRN, or both. The MAR is separated into two sheets. The first sheet is for continuous medications and the second sheet is for one-time and PRN medications. When the 7 Day MAR with orders is run, both sheets will print for each patient, even though the patient might only have one type of order. The user can also print blank MARs and designate which

sheets to print. The user can print continuous medication sheets only, PRN sheets only, or both. The blank MARs contain patient demographics, but no order data. Order information can be added manually or with labels.

Each sheet of the 7 Day MAR consists of three parts:

1. The top part of each sheet contains the patient demographics.
2. The main body of the MAR contains the order information and an area to record the medication administration.
 - a. The order information prints on the left side of the main body, printed in the same format as on labels. Labels can be used to add new orders to this area of the MAR (Labels should never be placed over order information already on the MAR). Renewal dates can be recorded on the top line of each order.
 - b. The right side of the main body is where the actual administration is to be recorded. On the continuous medication sheet, the right side will be divided into seven columns, one for each day of the range of the MAR. Asterisks will print at the bottom of the columns corresponding to the days on which the medication is not to be given (e.g., Orders with a schedule of Q3D would only be given every three days, so asterisks would appear on days the medication should not be given).
3. The bottom of the form is designed to duplicate the bottom of the current CMR (VA FORM 10-2970 the back of the current PRN and ONE TIME MED RECORD CMR (VA FORM 10-5568d). The MAR is provided to record other information about the patient and his or her medication(s). It is similar to the bottom of the 24 Hour MAR, but lists more injection sites and does not allow space to list allergies.

For IV orders that have no schedule ***** will print on the bottom of the column corresponding to the day the order is to expire. On the continuous medication sheet only, there might be additional information about each order under the column marked notes. On the first line, SM will print if the order has been marked as a self-med order. The letters HSM will print if the order is marked as a hospital supplied self-med. On the second line, WS will print if the order is found to be a ward stock item, CS will print if the item is a Controlled Substance and/or NF will print if the order is a non-formulary. If the order is printed in more than one block, the RPH and RN initial line will print on the last block.

The answer to the prompt, “Enter START DATE/TIME for 7 Day MAR:” determines the date range covered by the 7 Day MAR. The stop date is automatically calculated. Entry of time is not required, but if a time is entered with the date, only those orders that expire after the date and time selected will print. If no time is entered, all orders that expire on or after the date selected will print.

Please keep in mind that the MAR is designed to print on stock 8 ½” by 11” paper at 16 pitch (6 lines per inch).



Example: 7 Day MAR (continued)

| | | |
|--------------------------|---------------------------------------|--|
| CONTINUOUS SHEET | 7 DAY MAR | 09/07/00 through 09/13/00 Printed on 09/20/2000 |
| SAMPLE HEALTHCARE SYSTEM | | |
| 16:14 | Name: PSJPATIENT1,ONE | Weight (kg): _____ (_____) |
| | PID: 000-00-0001 DOB: 09/18/1920 (80) | Height (cm): _____ (_____) |
| | Sex: MALE Dx: TESTING | Loc: 1 EAST |
| | | Room-Bed: B-12 |
| | | Admitted: 05/03/2000 |
| 13:29 | Allergies: No Allergy Assessment | ADR: |

| Order | Start | Stop | Admin Times | 09/07 | 09/08 | 09/09 | 09/10 | 09/11 | 09/12 | 09/13 | notes |
|---------------------------------|---------------------------------|------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| ----- | | | | | | | | | | | |
| | | | 01 | ***** | | | | | | | |
| 09/07 | 09/07 15:00 | 09/21/00 24:00 (A9111) | 09 | ***** | | | | | | | |
| | AMPICILLIN CAP | | C 15 | | | | | | | | |
| | Give: 500MG PO QID | | 20 | | | | | | | | |
| | | RPH: PI RN: _____ | | | | | | | | | |
| ----- | | | | | | | | | | | |
| | | | 01 | ***** | | | | | | | |
| 09/07 | 09/07 15:00 | 09/14/00 16:54 (A9111) | 09 | ***** | | | | | | | |
| | AMPICILLIN 1 GM | | C 15 | | | | | | | | |
| | in 0.9% NAACL 100 ML | | 20 | | | | | | | | |
| | IVPB QID | | | | | | | | | | |
| | See next label for continuation | | | | | | | | | | |
| ----- | | | | | | | | | | | |
| THIS IS AN INPATIENT IV EXAMPLE | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | RPH: PI RN: _____ | | | | | | | | | |
| ----- | | | | | | | | | | | |
| | | | | | | | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:34 (A9111) | C 17 | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** |
| | HYDROCORTISONE CREAM, TOP | | | | | | | | | | |
| | Give: 1% 0 QDAILY | | | | | | | | | | |
| | | RPH: MLV RN: _____ | | | | | | | | | |
| ----- | | | | | | | | | | | |
| | | | | | | | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:50 (A9111) | C 09 | **** | **** | **** | **** | **** | **** | **** | **** |
| | METHYLPREDNISOLNE INJ | | 21 | **** | **** | **** | **** | **** | **** | **** | **** |
| | Give: 500MG IV Q12H | | | | | | | | | | |
| | THIS IS AN INPATIENT IV EXAMPLE | | | | | | | | | | |
| | | RPH: MLV RN: _____ | | | | | | | | | |
| ----- | | | | | | | | | | | |
| | | | | | | | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:50 (A9111) | C 17 | **** | **** | **** | **** | **** | **** | **** | **** |
| | METHYLPREDNISOLNE INJ | | | | | | | | | | |
| | Give: 1000MG IV QDAILY | | | | | | | | | | |
| | THIS IS AN INPATIENT IV EXAMPLE | | | | | | | | | | |
| | | RPH: MLV RN: _____ | | | | | | | | | |
| ----- | | | | | | | | | | | |

| SIGNATURE/TITLE | INIT | INJECTION SITES | MED/DOSE OMITTED | REASON | INIT |
|------------------------------------|------|-----------------|------------------|--------|------|
| ----- | | | | | |
| Indicate RIGHT (R) or LEFT (L) | | | | | |
| ----- | | | | | |
| (IM) (SUB Q) | | | | | |
| ----- | | | | | |
| 1. DELTOID 6. UPPER ARM | | | | | |
| ----- | | | | | |
| 2. VENTRAL GLUTEAL 7. ABDOMEN | | | | | |
| ----- | | | | | |
| 3. GLUTEUS MEDIUS 8. THIGH | | | | | |
| ----- | | | | | |
| 4. MID (ANTERIOR) THIGH 9. BUTTOCK | | | | | |
| ----- | | | | | |
| 5. VASTUS LATERALIS 10. UPPER BACK | | | | | |
| ----- | | | | | |
| PRN: E=Effective N=Not Effective | | | | | |
| ----- | | | | | |

| | | | |
|-----------------|----------------------------|--------------|-----------------|
| PSJPATIENT1,ONE | 000-00-0001 Room-Bed: B-12 | LAST PAGE: 1 | VA FORM 10-2970 |
|-----------------|----------------------------|--------------|-----------------|

6.2.3 14 Day MAR [PSJU 14D MAR]

The *14 Day MAR* option creates a report form that can be used to track the administration of patients' medications.

- Date/time range covered by the MAR using a four-digit year format
- Institution Name
- Ward/Clinic*
- Patient demographic data
- Time line
- Information about each order

*For Outpatients receiving Inpatient Medication orders in an appropriate clinic.

The order information consists of:

- Order date
- Start date
- Stop date
- Schedule type (a letter code next to the administration times)
- Administration times (will be blank if an IV order does not have a schedule)
- Drug name
- Strength (if different from that indicated in drug name)
- Medication route abbreviation
- Schedule
- Verifying pharmacist's and nurse's initials

The MAR is printed by group (**G**), ward (**W**), clinic (**C**) or patient (**P**). When group is selected, a prompt to select by ward group (**W**) or clinic group (**C**) displays. If the user chooses to print by patient, the opportunity to select more than one patient will be given. The system will keep prompting, "Select another PATIENT:". If a caret (^) is entered, the user will return to the report menu. When all patients are entered, press <Enter> at this prompt to continue.



Note: If the user chooses to select by ward, administration teams may be specified and the MAR may be sorted by administration team and then by room-bed or patient name. The default for the administration team is ALL and multiple administration teams may be entered. If selecting by ward group the MAR may be sorted by room-bed or patient name. When the report is printed by clinic or clinic group, and the order is for an outpatient, the report leaves Room/Bed blank.

When selecting by Ward, Ward Group, Clinic, or Clinic Group, the following prompts are included. All orders for a patient are grouped together by the patient's name, regardless of location.

Select by Ward:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): WARD  
Include Clinic Orders?
```

Entering **YES** for Clinic Orders prints both ward and clinic orders for patients on a ward.
Entering **NO** for Clinic Orders prints only the ward orders.

Select by Ward Group:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): GROUP  
Select by WARD GROUP (W) or CLINIC GROUP (C): WARD  
Include Clinic Orders?
```

Entering **YES** for Clinic Orders prints both ward and clinic orders for patients in a Ward Group.
Entering **NO** for Clinic Orders prints only the ward orders for patients in a Ward Group.

Select by Clinic:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): CLINIC  
Include Ward Orders?
```

Entering **YES** for Ward Orders prints both clinic and ward orders for patients in a clinic.
Entering **NO** for Ward Orders prints only the clinic orders.

Select by Clinic Group:

```
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): GROUP  
Select by WARD GROUP (W) or CLINIC GROUP (C): CLINIC  
Include Ward Orders?
```

Entering **YES** for Ward Orders prints both clinic and ward orders for patients in a Clinic Group.
Entering **NO** for Ward Orders prints only the clinic orders for patients in a Clinic Group.

There are six medication choices. The user may select multiple choices of medications to be printed on the 14 Day MAR. Since the first choice is ALL Medications, the user will not be allowed to combine this with any other choices. The default choice is “Non-IV Medications only” if:

1. The MAR ORDER SELECTION DEFAULT parameter was not defined.
2. Selection by Ward group.
3. Selected by patients and patients are from different wards.

The *14 Day MAR* option allows the nurse to choose whether to print continuous, PRN, or both. The MAR is separated into two sheets. The first sheet is for continuous medications and the second sheet is for one-time and PRN medications. When the 14 Day MAR with orders is run, both sheets will print for each patient, even though the patient might only have one type of order.

The user can also print blank MARs and designate which sheets to print. The user can print continuous medication sheets only, PRN sheets only, or both. The blank MARs contain patient demographics, but no order data. Order information can be added manually or with labels.

Each sheet of the MAR consists of three parts:

1. The top part of each sheet contains the patient demographics.
2. The main body of the MAR contains the order information and an area to record the medication administration.
 - a. The order information prints on the left side of the main body, printed in the same format as on labels. Labels can be used to add new orders to this area of the MAR (Labels should never be placed over order information already on the MAR). Renewal dates can be recorded on the top line of each order.
 - b. The right side of the main body is where the actual administration is to be recorded. On the continuous medication sheet, the right side will be divided into 14 columns, one for each day of the range of the MAR. Asterisks will print at the bottom of the columns corresponding to the days on which the medication is not to be given (e.g., Orders with a schedule of Q3D would only be given every three days, so asterisks would appear on two days out of three).
3. The bottom of the MAR is provided to record other information about the patient and his or her medication(s). It is similar to the bottom of the 24-hour MAR, but lists more injection sites.

For IV orders that have no schedule, **** will print on the bottom of the column corresponding to the day the order is to expire. On the continuous medication sheet only, there might be additional information about each order under the column marked notes. On the first line, SM will print if the order has been marked as a self-med order. The letters HSM will print if the order is marked as a hospital supplied self-med. On the second line, WS will print if the order is found to be a ward stock item, CS will print if the item is a Controlled Substance and/or NF will print if the order is a non-formulary. If the order is printed in more than one block, the RPH and RN initial line will print on the last block.

The answer to the prompt, “Enter START DATE/TIME for 14 Day MAR:” determines the date range covered by the 14 Day MAR. The stop date is automatically calculated. Entry of time is not required, but if a time is entered with the date, only those orders that expire after the date and time selected will print. If no time is entered, all orders that will expire on or after the date selected will print.

Please keep in mind that the MAR is designed to print on stock 8 ½” by 11” paper at 16 pitch (6 lines per inch).



Example: 14 Day MAR (continued)

| CONTINUOUS SHEET | | 14 DAY MAR | | 09/07/2000 through 09/20/2000 | |
|--|-------------|------------------------|----------------------------------|---|-----------------|
| SAMPLE HEALTHCARE SYSTEM | | Name: PSJPATIENT1,ONE | | Weight (kg): _____ (_____) | |
| PID: 000-00-0001 DOB: 08/18/1920 (80) | | Sex: MALE Dx: TESTING | | Height (cm): _____ (_____) | |
| Allergies: No Allergy Assessment ADR: | | Admin Times | | SEP 07 08 09 10 11 12 13 14 15 16 17 18 19 20 notes | |
| Order | Start | Stop | | | |
| ----- | | | | | |
| 09/07 | 09/07 15:00 | 09/21/00 24:00 (A9111) | 01 09 C 15 20 | **** | |
| AMPICILLIN CAP Give: 500MG PO QID | | | | | |
| RPH: PI RN: _____ | | | | | |
| ----- | | | | | |
| 09/07 | 09/07 15:00 | 09/14/00 16:54 (A9111) | 01 09 C 15 20 | **** | |
| AMPICILLIN 1 GM in 0.9% NAACL 100 ML IVPB QID See next label for continuation | | | | | |
| RPH: PI RN: _____ | | | | | |
| ----- | | | | | |
| THIS IS AN INPATIENT IV EXAMPLE | | | | | |
| RPH: PI RN: _____ | | | | | |
| ----- | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:34 (A9111) | C 17 | **** | |
| HYDROCORTISONE CREAM, TOP Give: 1% 0 QDAILY | | | | | |
| RPH: MLV RN: _____ | | | | | |
| ----- | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:50 (A9111) | C 09 21 | **** | |
| METHYLPREDNISOLNE INJ Give: 500MG IV Q12H THIS IS AN INPATIENT IV EXAMPLE | | | | | |
| RPH: MLV RN: _____ | | | | | |
| ----- | | | | | |
| 09/07 | 09/07 17:00 | 09/07/00 12:50 (A9111) | C 17 | **** | |
| METHYLPREDNISOLNE INJ Give: 1000MG IV QDAILY THIS IS AN INPATIENT IV EXAMPLE | | | | | |
| RPH: MLV RN: _____ | | | | | |
| ----- | | | | | |
| SIGNATURE/TITLE | | INIT | INJECTION SITES | MED/DOSE OMITTED | REASON |
| ----- | | ----- | ----- | ----- | ----- |
| | | | Indicate RIGHT (R) or LEFT (L) | | |
| | | | (IM) (SUB Q) | | |
| | | 1. | DELTOID 6. UPPER ARM | | |
| | | 2. | VENTRAL GLUTEAL 7. ABDOMEN | | |
| | | 3. | GLUTEUS MEDIUS 8. THIGH | | |
| | | 4. | MID(ANTERIOR) THIGH 9. BUTTOCK | | |
| | | 5. | VASTUS LATERALIS 10. UPPER BACK | | |
| | | | PRN: E=Effective N=Not Effective | | |
| ----- | | | | | |
| PSJPATIENT1,ONE | | 000-00-0001 | Room-Bed: B-12 | LAST PAGE: 1 | VA FORM 10-2970 |

6.2.4 Action Profile #1 [PSJU AP-1]

The *Action Profile #1* [PSJU AP-1] option creates a report form that contains all of the active inpatient medication orders for one or more patients. These patients may be selected by ward group (**G**) ward (**W**) or patient (**P**). If selection by ward is chosen, the administration teams may be specified. The default for the administration team is ALL and multiple administration teams may be entered. If selecting by ward or ward group, the profile may be sorted by patient name or room-bed. Entering a Ward Group of ^OTHER will automatically sort by patient and print a report for Outpatients that are receiving Inpatient Medications and that meet the report parameters. If the user chooses to run this option by patient, the opportunity is given to select as many patients as needed, but only those that have active orders will print.

The *Action Profile #1* [PSJU AP-1] option also allows for viewing a list of clinic orders. Clinic orders are displayed separately from non-clinic orders.

Start and stop dates will be prompted next. If the user chooses to enter a start and stop date, only patients with active orders occurring between those dates will print. The start and stop dates must be in the future (**NOW** is acceptable). Time is required only if the current date of **TODAY** or **T** is entered.

There are six medication choices. The user may select multiple choices of medications to be printed on the Action Profile #1 report. Since the first choice is ALL Medications, the user will not be allowed to combine this with any other choices. The default choice is “Non-IV Medications only” if:

1. The MAR ORDER SELECTION DEFAULT parameter was not defined.
2. Selection by Ward group.
3. Selected by patients and patients are from different wards.

The form is printed so the attending provider will have a method of periodically reviewing these active medication orders. If the user chooses to run this option by patient, the opportunity is given to select as many patients as needed, but only those that have active orders will print.

Also on this profile, the provider can renew, discontinue, or not take any action regarding the active orders for each patient. A new order will be required for any new medication prescribed or for any changes in the dosage or directions of an existing order. If no action is taken, a new order is not required.

If the user chooses to enter a start and stop date, only patients with active orders occurring between those dates will print (for the ward or wards chosen). The start and stop dates must be in the future (**NOW** is acceptable). Time is required only if the current date of **TODAY** or **T** is entered.

It is recommended that the action profiles be printed on two-part paper, if possible. Using two-part paper allows a copy to stay on the ward and the other copy to be sent to the pharmacy.



| | | |
|------------------|-------------|-----------------------|
| Date AND Time | | PHYSICIAN'S SIGNATURE |
| PSJPATIENT1, ONE | 000-00-0001 | 08/18/1920 |

6.2.5 Action Profile #2 [PSJU AP-2]

The *Action Profile #2* [PSJU AP-2] option is similar to the *Action Profile #1* option (see previous report) with the added feature that the nurse can show only expiring orders, giving in effect, stop order notices (see *INpatient Stop Order Notices*).

The *Action Profile #2* [PSJU AP-2] option also allows for viewing a list of clinic orders. Clinic orders are displayed separately from non-clinic orders.

The user can run the *Action Profile #2* [PSJU AP-2] option by group (**G**), ward (**W**), clinic (**C**), or patient (**P**). When group is selected, a prompt to select by ward group (**W**) or clinic group (**C**) displays. If this option is run by patient, the opportunity to select as many patients as desired is given, but the user will not get a report if the patient has no active orders.

If the option for a ward or a ward group is chosen, a prompt to choose the ward or ward group for which the user wants to run the option is displayed. The user will then be asked to sort (print) Action Profiles by team (**T**) or treating provider (**P**). If Ward Group of ^OTHER is entered, the user will not be given a sort (print) option; it will automatically sort by treating provider and print a report of Outpatients that are receiving Inpatient Medications and that meet the report parameters.

At the “Print (A)ll active orders, or (E)xpiring orders only? A//” prompt, the user can choose to print all active orders for the patient(s) selected, or print only orders that will expire within the date range selected for the patient(s) selected.

There are six medication choices. The user may select multiple choices of medications to be printed on the Action Profile #2 report. Since the first choice is ALL Medications, the user will not be allowed to combine this with any other choices.

It is recommended that the action profiles be printed on two-part paper, if possible. Using two-part paper allows a copy to stay on the ward and the other copy to be sent to the pharmacy.



Example: Action Profile #2

```
Select Reports Menu Option: AP2 Action Profile #2

Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): PATIENT <Enter>

Select PATIENT: PSJPATIENT1,ONE          000-00-0001   08/18/20   1 EAST

Select another PATIENT: <Enter>
Enter START date/time: NOW// <Enter> (09/11/00@11:02)
Enter STOP date/time: 09/11/2000@11:02// T+7 (09/18/2000)

Print (A)ll active orders, or (E)xpiring orders only? A// <Enter> (ALL)

Enter medication type(s): 2,3,6// 1

Select PRINT DEVICE: <Enter> NT/Cache virtual TELNET terminal

...this may take a few minutes...(you really should QUEUE this report)...
Enter RETURN to continue or '^' to exit: <Enter>
```

```
UNIT DOSE ACTION PROFILE #2          09/11/2000  11:03
SAMPLE HEALTHCARE SYSTEM
(Continuation of VA FORM 10-1158)          Page: 1
-----
A new order must be written for any new medication or to make any changes
in dosage or directions on an existing order.
-----
Team: NOT FOUND
PSJPATIENT1,ONE          Ward: 1 EAST
PID: 000-00-0001          Room-Bed: B-12          Ht (cm): _____ (_____)
DOB: 08/18/1920 (80)          Wt (kg): _____ (_____)
Sex: MALE          Admitted: 05/03/2000
Dx: TESTING
CrCL: <Not Found> (CREAT: Not Found)          BSA (m2): _____

Allergies: No Allergy Assessment
ADR:
-----
No. Action      Drug          ST Start Stop  Status/Info
-----
1  AMPICILLIN 1 GM          C  09/07 09/14 A
   in 0.9% NACL 100 ML QID
   Special Instructions: THIS IS AN INPATIENT IV EXAMPLE
   ___ TAKE NO ACTION    ___ DISCONTINUE    ___ RENEW    COST/DOSE: 1.32
-----
2  AMPICILLIN CAP          C  09/07 09/21 A
   Give: 500MG PO QID
   ___ TAKE NO ACTION    ___ DISCONTINUE    ___ RENEW    COST/DOSE: 0.731
-----
3  HYDROCORTISONE CREAM, TOP  C  09/07 09/21 A
   Give: 1% TOP QDAILY
   ___ TAKE NO ACTION    ___ DISCONTINUE    ___ RENEW    COST/DOSE: 0.86
-----
4  MULTIVITAMINS 5 ML          C  09/07 09/12 A
   in 0.9% NACL 1000 ML 20 ml/hr
   ___ TAKE NO ACTION    ___ DISCONTINUE    ___ RENEW    COST/DOSE: 468.795
-----

Date AND Time          PHYSICIAN'S SIGNATURE
```

MULTIDISCIPLINARY REVIEW
(WHEN APPROPRIATE)

PHARMACIST'S SIGNATURE _____

NURSE'S SIGNATURE _____

ADDITIONAL MEDICATION ORDERS:

Date AND Time _____ PHYSICIAN'S SIGNATURE _____

PSJPATIENT1,ONE 000-00-0001 08/18/1920

6.2.6 Authorized Absence/Discharge Summary [PSJU DS]

The *AUthorized Absence/Discharge Summary* option creates a report to allow the user to determine what action to take on a patient's Unit Dose orders if the patient is discharged from the hospital or will leave the hospital for a designated period of time (authorized absence). The form is printed so that the provider can place the active orders of a patient on hold, not take any action on the order, or continue the order upon discharge or absence. If the provider wishes to continue the order upon discharge, then he or she can identify the number of refills, the quantity, and the number of days for the order to remain active. If no action is taken on the order, it will expire or be discontinued.

The user can run the Authorized Absence Discharge Summary by ward group, ward, or by patient. If the user chooses to run this report by patient, the opportunity is given to select as many patients as desired, but only patients with active orders will print.

If the option by ward or ward groups is chosen, the user will be prompted for start and stop date. Entry of these dates is not required, but if a start and stop date is entered, a discharge summary will print only for those patients that have at least one order that will be active between those dates. If the user does not enter a start date, all patients with active orders will print (for the ward or ward group chosen). If a clinic visit has been scheduled, the date will print. If more than one has been scheduled, only the first one will print. It is recommended that this report be queued to print when user demand for the system is low.

For co-payment purposes, information related to the patient's service connection is shown on the first page of the form (for each patient). If the patient is a service-connected less than 50% veteran, the provider is given the opportunity to mark each non-supply item order as either SERVICE CONNECTED (SC) or NON-SERVICE CONNECTED (NSC).



Example: Authorized Absence/Discharge Summary

```
Select Reports Menu Option: Authorized Absence/Discharge Summary
Print BLANK Authorized Absence/Discharge Summary forms? NO// <Enter>
Select by WARD GROUP (G), WARD (W), or PATIENT (P): Patient <Enter>
Select PATIENT: PSJPATIENT2,TWO      000-00-0002   02/22/42   1 West
Select another PATIENT: <Enter>
...this may take a few minutes...(you should QUEUE this report)...
Select PRINT DEVICE: <Enter>  TELNET
```

```

                                AUTHORIZED ABSENCE/DISCHARGE ORDERS      09/19/2000  12:43
                                VAMC: REGION 5 (660)
VA FORM: 10-7978M
Effective Date:                                     Page: 1
=====
Instructions to the physician:
  A. A prescription blank (VA FORM 10-2577F) must be used for:
    1. all class II narcotics
    2. any medications marked as 'nonrenewable'
    3. any new medications in addition to those entered on this form.
  B. If a medication is not to be continued, mark "TAKE NO ACTION".
  C. To continue a medication, you MUST:
    1. enter directions, quantity, and refills
    2. sign the order, enter your DEA number, and enter the date AND time.
=====
PSJPATIENT2,TWO           Ward: 1 West
PID: 000-00-0002         Room-Bed: A-6           Ht(cm): _____ (_____)
DOB: 02/22/1942 (58)    Team: * NF *           Wt(kg): _____ (_____)
Sex: MALE                Last Admitted: 06/24/1998
Dx: KDJF                 Discharged: 12/11/12
CrCL: <Not Found> (CREAT: Not Found)   BSA (m2): _____
Allergies: CARAMEL, CN900, LOMEFLOXACIN, PENTAMIDINE, PENTAZOCINE, CHOCOLATE,
           NUTS, STRAWBERRIES, DUST
NV Aller.: AMOXICILLIN, AMPICILLIN, TAPE, FISH, FLUPHENAZINE DECANOATE
ADR:
=====
*** THIS PATIENT HAS NON-VERIFIED ORDERS. ***

___ AUTHORIZED ABSENCE <96 HOURS   ___ AUTHORIZED ABSENCE >96 HOURS
NUMBER OF DAYS: _____ (NO REFILLS allowed on AA/PASS meds)

___ REGULAR DISCHARGE   ___ OPT NSC   ___ SC

Service Connected:
Disabilities: NONE STATED

Next scheduled clinic visit:
=====
No.      Medication                               Schedule      Cost per
                                                  Type          Dose
-----
  1 ACETAMINOPHEN 650 MG SUPP                CONTINUOUS    0.088
    Inpt Dose: 650MG RECTALLY QDAILY

___ TAKE NO ACTION (PATIENT WILL NOT RECEIVE MEDICATION)

Outpatient Directions: _____

Qty:      Refills:  0  1  2  3  4  5  6  7  8  9  10  11

_____  

Physician's Signature           DEA #           Date AND Time
```


Enter RETURN to continue or '^' to exit:

AUTHORIZED ABSENCE/DISCHARGE ORDERS
VAMC: REGION 5 (660)

Page: 2

VA FORM: 10-7978M
PSJPATIENT2,TWO

000-00-0002

02/22/1942

| No. | Medication | Schedule Type | Cost per Dose |
|--|--|------------------------|---------------|
| 2 | BENZOYL PEROXIDE 10% GEL (2OZ) Inpt Dose: APPLY SMALL AMOUNT TOP QDAILY Special Instructions: TEST | CONTINUOUS | 3.78 |
| ___ TAKE NO ACTION (PATIENT WILL NOT RECEIVE MEDICATION) | | | |
| Outpatient Directions: _____ | | | |
| Qty: _____ | Refills: 0 1 2 3 4 5 6 7 8 9 10 11 | | |
| _____ Physician's Signature | _____ DEA # | _____ Date AND Time | |
| 3 | RANITIDINE 150MG Inpt Dose: 150MG PO BID | CONTINUOUS | 0.5 |
| ___ TAKE NO ACTION (PATIENT WILL NOT RECEIVE MEDICATION) | | | |
| Outpatient Directions: _____ | | | |
| Qty: _____ | Refills: 0 1 2 3 4 5 6 7 8 9 10 11 | | |
| _____ Physician's Signature | _____ DEA # | _____ Date AND Time | |
| 4 | THEO-24 200MG Inpt Dose: 400MG PO QID Special Instructions: TESTING DO | CONTINUOUS | 0.086 |
| ___ TAKE NO ACTION (PATIENT WILL NOT RECEIVE MEDICATION) | | | |
| Outpatient Directions: _____ | | | |
| Qty: _____ | Refills: 0 1 2 3 4 5 6 7 8 9 10 11 | | |
| _____ Physician's Signature | _____ DEA # | _____ Date AND Time | |
| ===== | | | |
| OTHER MEDICATIONS: | | | |
| 5 Medication: _____ | | | |
| Outpatient Directions: _____ | | | |
| Qty: _____ | Refills: 0 1 2 3 4 5 6 7 8 9 10 11 | | |
| _____ Physician's Signature | _____ DEA # | _____ Date AND Time | |
| 6 Medication: _____ | | | |
| Outpatient Directions: _____ | | | |
| Qty: _____ | Refills: 0 1 2 3 4 5 6 7 8 9 10 11 | | |
| _____ Physician's Signature | _____ DEA # | _____ Date AND Time | |

Enter RETURN to continue or '^' to exit: <Enter>

AUTHORIZED ABSENCE/DISCHARGE INSTRUCTIONS 09/19/2000 12:43
VAMC: REGION 5 (660)

VA FORM: 10-7978M
Effective Date:

=====
PSJPATIENT2,TWO Ward: 1 West
PID: 000-00-0002 Room-Bed: A-6 Ht (cm): _____ (_____)
DOB: 02/22/1942 (58) Team: * NF * Wt (kg): _____ (_____)
Sex: MALE Last Admitted: 06/24/1998
Dx: KDJF Discharged: 12/11/12
CrCL: <Not Found> (CREAT: Not Found) BSA (m2): _____
Allergies: CARAMEL, CN900, LOMEFLOXACIN, PENTAMIDINE, PENTAZOCINE, CHOCOLATE,
 NUTS, STRAWBERRIES, DUST
NV Aller.: AMOXICILLIN, AMPICILLIN, TAPE, FISH, FLUPHENAZINE DECANOATE
ADR:

=====
Next scheduled clinic visit:
=====

DIETARY INSTRUCTIONS: (Check One)
___ NO RESTRICTIONS ___ RESTRICTIONS (Specify) _____

=====
PHYSICAL ACTIVITY LIMITATIONS: (Check One)
___ NO RESTRICTIONS ___ RESTRICTIONS (Specify) _____

=====
SPECIAL INSTRUCTIONS: (list print information, handouts, or other
instructions pertinent to patient's condition) _____

=====
DIAGNOSES: _____

Enter RETURN to continue or '^' to exit: <Enter>

AUTHORIZED ABSENCE/DISCHARGE INSTRUCTIONS 09/19/2000 12:43
VAMC: REGION 5 (660)

VA FORM: 10-7978M
Effective Date:

=====
PSJPATIENT2,TWO Ward: 1 West
PID: 000-00-0002 Room-Bed: A-6 Ht (cm): _____ (_____)
DOB: 02/22/1942 (58) Team: * NF * Wt (kg): _____ (_____)
Sex: MALE Last Admitted: 06/24/1998
Dx: KDJF Discharged: 12/11/12
CrCL: <Not Found> (CREAT: Not Found) BSA (m2): _____
Allergies: CARAMEL, CN900, LOMEFLOXACIN, PENTAMIDINE, PENTAZOCINE, CHOCOLATE,
 NUTS, STRAWBERRIES, DUST
NV Aller.: AMOXICILLIN, AMPICILLIN, TAPE, FISH, FLUPHENAZINE DECANOATE
ADR:

| DRUG NAME | UNIT | DATE DISPENSED | DISP. BY |
|--------------------------------|------|-------------------|-------------|
| ACETAMINOPHEN 650 MG SUPP | 3 | 09/19/00 | 12:54 MV |
| | 5 | 09/19/00 | 12:54 MV |
| | 8 | | |
| BENZOYL PEROXIDE 10% GEL (2OZ) | 2 | 09/19/00 | 12:58 PM |
| | 2 | | |
| RANITIDINE 150MG | 3 | 09/19/00 | 12:54 MV |
| | 3 | 09/19/00 | 12:58 PM |
| | 6 | | |
| TOTAL FOR PSJPATIENT2,TWO..... | 16 | | |

Press Return to continue...

6.2.8 Free Text Dosage Report [PSJU DOSAGE REPORT]

The *Free Text Dosage Report* option creates a report to track commonly ordered free text dosages over a date range. This report evaluates Unit Dose orders that were active during the specified dates against the DISPENSE DRUG file. If the applicable Possible Dosages or Local Possible Dosages do not match the Dosage Ordered, then this is considered a Free Text Dosage Entry and is contained in this report. This report includes the:

- Dispense Drug
- Free Text Dosage Entry
- Total number of occurrences of each Free Text Dosage Entry
- Number of occurrences by the Provider Name

Each entry in the Free Text Dosage Report consists of at least two lines of display. The first line shows the Dispense Drug name, followed by the drug internal entry number in parentheses. The first line continues with the Free Text Dosage Entry and the total number of occurrences of this entry. The second line shows the name of the Providers that used this Free Text Dosage Entry during the requested date range, and the number of times Providers used this free text dosage. Since all Providers are listed, multiple lines will be displayed.

Unit Dose orders that were active during the specified date range and have free text dosages are included in this report. The user is prompted to enter the “Beginning Date:” and an “Ending Date:” for the report to print. If no value is entered in either of the two prompts, the report will not print. The date range will be listed in the “Period:” section of the report header with the beginning date appearing as the first date and the ending date appearing as the second date.



Example: Free Text Dosage Report

```
Select Reports Menu Option: FREE Text Dosage Report
Beginning Date: T-100 (SEP 29, 2001)
```

```

Ending Date: T (JAN 07, 2002)
DEVICE: HOME// 0:80 NT/Cache virtual TELNET terminal

Working - please wait.....

Page 1
Inpatient Free Text Dosage Entry Report
Period: Sep 29, 2001 to Jan 07, 2002
Drug Provider:Count Free Text Entry Count
-----
A-METHYL-PARA-TYROSINE CAPS,25 (5098) 100MG 1
PSJPROVIDER,ONE:1
ACETAMINOPHEN 325MG C.T. (263) 1000MG 1
PSJPROVIDER,TWO:1
PSJPROVIDER,THREE:1 100MG 2
PSJPROVIDER,FOUR:1 PSJPROVIDER,FOUR:1 100mg 1
PSJPROVIDER,FOUR:1 100mg 1
PSJPROVIDER,TWO:1 300MG 1
PSJPROVIDER,TWO:1 325MG 7
PSJPROVIDER,ONE:1 PSJPROVIDER,TWO:4
PSJPROVIDER,FIVE:2
Press Return to Continue or ^ to Exit:

```

6.2.9 Inpatient Stop Order Notices
[PSJ EXP]

The *Inpatient Stop Order Notices* option produces a list of patients’ medication orders that are about to expire. Action must be taken (using VA FORM 10-1158) if these medications are to be re-ordered. This option will list both Unit Dose orders and IV orders. The user may choose to print All, which is the default, or either the Unit Dose or IV orders.

The next prompt allows the user to select by group (G), ward (W), clinic (C), or patient (P). When group is selected, a prompt to select by ward group (W) or clinic group (C) displays.

Start and stop dates will be prompted next.

Special Instructions for Unit Dose orders and Other Print Information for IV orders are listed on the report. IV orders are sorted by the Orderable Item of the first additive or solution in the order. The Orderable Item with each additive and solution is displayed along with the strength/volume specified. The schedule type for all IV orders is assumed to be continuous.

If the user chooses to print by ward, the selection to sort by administration teams is displayed. ALL teams, which is the default, multiple teams, or one administration team may be chosen.

Example: Inpatient Stop Order Notices

```

Select Reports Menu Option: INpatient Stop Order Notices
Select by GROUP (G), WARD (W), CLINIC (C), or PATIENT (P): PATIENT <Enter>
Select PATIENT: PSJPATIENT2,TWO 000-00-0002 02/22/42 1 West

```

Enter start date: **T** (09/19/2000)
 Enter stop date: **T+7** (09/26/2000)
 List IV orders, Unit Dose orders, or All orders: ALL// **<Enter>**
 Select PRINT DEVICE: **0;80** TELNET
 ...this may take a few minutes...
 ...you really should QUEUE this report, if possible...
 Enter RETURN to continue or '^' to exit: **<Enter>**
 AS OF: 09/19/00 13:14 Page: 1

THE FOLLOWING MEDICATIONS WILL EXPIRE
 FROM 09/19/00 00:01 THROUGH 09/26/00 24:00
 TO CONTINUE MEDICATIONS, PLEASE REORDER ON VA FORM 10-1158.

PSJPATIENT2,TWO Ward: 1 West
 PID: 000-00-0002 Room-Bed: A-6 Ht(cm): _____ (_____)
 DOB: 02/22/1942 (58) Team: * NF * Wt(kg): _____ (_____)
 Sex: MALE Last Admitted: 06/24/98
 Dx: KDJF Discharged: 12/11/12
 CrCL: <Not Found> (CREAT: Not Found) BSA (m2): _____
 Allergies: CARAMEL, CN900, LOMEFLOXACIN, PENTAMIDINE, PENTAZOCINE, CHOCOLATE,
 NUTS, STRAWBERRIES, DUST
 NV Aller.: AMOXICILLIN, AMPICILLIN, TAPE, FISH, FLUPHENAZINE DECANOATE
 ADR:

| Medication Dosage | ST | Start | Stop | Status/Info Provider |
|--|----|-------|------------------|-------------------------|
| AMPICILLIN 1 GM in 0.45% NAACL 100 ML QID IV | C | 09/19 | 09/22/00 18:00 A | PSJPROVIDER,ONE |
| PENTAMIDINE ISETHIONATE 1 MG in 0.45% NAACL 1000 ML 8 MG/HR IV 8 MG/HR@1 | C | 09/19 | 09/22/00 18:00 A | PSJPROVIDER,ONE |
| ACETAMINOPHEN 300/CODEINE 30 TAB Give: 2TABS PO QDAILY | C | 09/16 | 09/22/00 22:00 A | PSJPROVIDER,ONE |
| BENZOYL PEROXIDE GEL, TOP Give: APPLY SMALL AMOUNT TOP QDAILY Special Instructions: TEST | C | 09/19 | 09/22/00 22:00 A | PSJPROVIDER,ONE |
| RANITIDINE TAB Give: 150MG PO BID | C | 09/18 | 09/22/00 22:00 A | PSJPROVIDER,ONE |
| THEOPHYLLINE CAP, SA Give: 400MG PO QID Special Instructions: TESTING | C | 09/18 | 09/22/00 22:00 A | PSJPROVIDER,ONE |

PSJPATIENT2,TWO 000-00-0002 1 West A-6

6.2.10 Medications Due Worksheet [PSJ MDWS]

The *Medications Due Worksheet* option creates a report that lists active medications (Unit Dose and IV) that are due within a selected 24-hour period. The user will be able to select by ward group, ward, or individual patients. If the user chooses to select by ward, the administration

teams may be specified. The default for the administration team is ALL and multiple administration teams may be entered. If selecting by ward or ward group, the Medications Due Worksheet may be sorted by administration time, patient name, or room-bed. However, if the user chooses to select by patient, multiple patients can be entered.



For IV orders that have no schedule, the projected administration times will be calculated based on the order's volume, flow rate, and start time. An asterisk (*) will be printed for the administration times instead of the projected administration times.

If the MAR ORDER SELECTION DEFAULT prompt for the ward parameter is defined, the default will be displayed at the "Enter medication type(s):" prompt.

The default choice is 2 or Non-IV Medications only if:

1. The MAR ORDER SELECTION DEFAULT parameter was not defined.
2. Selection by Ward group.
3. Selected by patients and patients are from different wards.

The PRN medication orders will be printed if the user enters **YES** at the "Would you like to include PRN Medications (Y/N)? NO//"
prompt. PRN orders will be listed after all continuous and one-time orders are printed.

Example: Medications Due Worksheet

```
Select Reports Menu Option: MEDications Due Worksheet
Would you like to include PRN Medications (Y/N)? NO// YES
Enter Start Date and Time: T@1000 (09/19/00@10:00)
Enter Ending Date and Time: T@2400 (09/19/00@24:00)
Select by WARD GROUP (G), WARD (W), or PATIENT (P): Patient <Enter>
Select PATIENT: PSJPATIENT2,TWO 2-22-42 000000002 YES ACTIVE DUTY
Select another PATIENT: <Enter>
Enter medication type(s): 2// 1
Select output device: 0;80 TELNET

MEDICATIONS DUE WORKSHEET For: PSJPATIENT2,TWO Page: 1
Report from: 09/19/00 10:00 to: 09/19/00 24:00 Report Date: 09/19/00
Continuous/One time Orders for: ALL MEDS

For date: 09/19/00

PSJPATIENT2,TWO A-6 12:00 09/18 | 09/18 12:00 | 09/22/00 22:00
000-00-0002 RANITIDINE TAB
1 West Give: 150MG PO BID
RN/LPN Init: _____

09/18 | 09/18 12:00 | 09/22/00 22:00
THEOPHYLLINE CAP,SA
Give: 400MG PO QID
```

```

TESTING
RN/LPN Init: _____
* 09/19 | 09/19 12:00 | 09/22/00 18:00
  AMPICILLIN 1 GM
  in
  0.45% NAACL 1000 ML QID
  IV QID
  RN/LPN Init: _____
15:00 09/18 | 09/18 12:00 | 09/22/00 22:00
  RANITIDINE TAB
  Give: 150MG PO BID
  RN/LPN Init: _____
09/18 | 09/18 12:00 | 09/22/00 22:00
  THEOPHYLLINE CAP,SA
  Give: 400MG PO QID
  TESTING
  RN/LPN Init: _____
20:00 09/18 | 09/18 12:00 | 09/22/00 22:00
  RANITIDINE TAB
  Give: 150MG PO BID
  RN/LPN Init: _____
09/18 | 09/18 12:00 | 09/22/00 22:00
  THEOPHYLLINE CAP,SA
  Give: 400MG PO QID
  TESTING
  RN/LPN Init: _____

* Projected admin. times based on order's volume, flow rate, and start time.
Enter RETURN to continue or '^' to exit:

```

6.2.11 Patient Profile (Extended) [PSJ EXTP]

The *Patient Profile (Extended)* option creates a report to allow the viewing of all the orders on file for a patient. The user can view all of the orders that have not been purged or enter a date to start searching from.

```

Select Reports Menu Option: PATient Profile (Extended)
Select PATIENT:      PSJPATIENT1,ONE      000-00-0001  08/18/20   1 EAST
Date to start searching from (optional):  083101
Select another PATIENT: <Enter>
Show PROFILE only, EXPANDED VIEWS only, or BOTH: PROFILE// BOTH
Show SHORT, LONG, or NO activity log? NO// SHORT
Select PRINT DEVICE: <Enter>  DECSERVER

      I N P A T I E N T   M E D I C A T I O N S           02/28/02  14:12
      VAMC:  ALBANY, NY (500)
-----
PSJPATIENT1,ONE      Ward: 1 EAST
PID: 000-00-0001      Room-Bed: B-12      Ht (cm) : _____ (_____)
DOB: 08/18/20 (81)    Wt (kg) : _____ (_____)
Sex: MALE              Admitted: 05/03/00

```



```

Dx: TESTING                               Last transferred: *****
CrCL: <Not Found> (CREAT: Not Found)      BSA (m2): _____
Allergies: No Allergy Assessment
ADR:
----- A C T I V E -----
1  MULTIVITAMINS 5 ML                      C 02/28/2002 03/30/2002 A
   in 0.9% SODIUM CHLORIDE 1000 ML Q8H
2  BACLOFEN TAB                            C 02/20/2002 03/06/2002 A
   Give: 10MG PO QDAILY
   PATIENT SPITS OUT MEDICINE
3  PREDNISONE TAB                          C 02/25/2002 03/11/2002 A
   Give: 5MG PO TU-TH-SA@09
4  RESERPINE TAB                           C 02/20/2002 03/06/2002 A
   Give: 1MG PO QDAILY
5  PANCREATIN CAP,ORAL                     O 02/21/2002 03/23/2002 A
   Give: 1 CAPSULE PO ONCE
----- N O N - A C T I V E -----
6  CEFTAZIDIME INJ                         ? ***** ***** N
   Give: 1 GM IV QDAILY
7  TRACE ELEMENTS INJ                      ? ***** ***** N
   Give: 1 ML IV QDAILY
----- N O N - A C T I V E -----
8  in DEXTROSE 5% 1000 ML 1 ml/hr          ? ***** ***** P
9  CEFAZOLIN INJ                           ? ***** ***** P
   Give: 1GM/1VIAL IVPB ONE TIME
10 PENICILLIN INJ,SUSP                      ? ***** ***** P
   Give: 600000UNT/1ML IM BID
11 PENICILLIN INJ,SUSP                      ? ***** ***** P
   Give: 600000UNT/1ML IM QDAILY
----- N O N - A C T I V E -----
12 CEFAZOLIN 1 GM                           C 11/02/2001 12/07/2001 E
   in 5% DEXTROSE 1000 ML QID
13 zC2TESTDRUG 1 LITER                      C 12/14/2001 12/21/2001 E
   in 5% DEXTROSE 1000 ML QDAILY
Enter RETURN to continue or '^' to exit: <Enter>

Patient: PSJPATIENT1,ONE                    Status: ACTIVE
*(1) Additives:                            Order number: 29          Type: PIGGYBACK
    MULTIVITAMINS 5 ML
(2) Solutions:
    0.9% SODIUM CHLORIDE 1000 ML
    Duration:                               *(4) Start: 02/28/2002 13:56
(3) Infusion Rate: INFUSE OVER 8 HOURS.
*(5) Med Route: IV                          *(6) Stop: 03/30/2002 24:00
*(7) Schedule: QDAILY                       Last Fill: *****
(8) Admin Times: 09-13-17-21               Quantity: 0
*(9) Provider: PSJPROVIDER,ONE [w]         Cum. Doses:
*(10) Orderable Item: MULTIVITAMINS INJ
    Instructions:
(11) Other Print:

(12) Remarks :
    Entry By: PSJPROVIDER,ONE                Entry Date: 02/28/02 13:56
ACTIVITY LOG:
#  DATE          TIME          REASON          USER
=====
1  FEB 28,2002 13:58:30 VERIFY          PSJPHARMACIST,ONE
    Comment: ORDER VERIFIED BY PHARMACIST
-----
Patient: PSJPATIENT1,ONE                    Status: ACTIVE
Orderable Item: BACLOFEN TAB
Instructions:
Dosage Ordered: 10MG
Duration:                               Start: 02/20/2002 15:20
Med Route: ORAL (PO)                       Stop: 03/06/2002 24:00
Schedule Type: CONTINUOUS
Schedule: QDAILY
Admin Times: 1440
Provider: PSJPROVIDER,ONE [w]
Special Instructions: PATIENT SPITS OUT MEDICINE

```

```

Dispense Drugs                                U/D  Units  Units  Inactive
-----
BACLOFEN 10MG TABS                          1    0      0      Date

Entry By: PSJPROVIDER,ONE                    Entry Date: 02/20/02  15:20
ACTIVITY LOG:
#  DATE      TIME      REASON      USER
=====
      (THE ORDERABLE ITEM IS CURRENTLY LISTED AS INACTIVE.)

      Date: 02/20/02  15:20      User: PSJPHARMACIST,ONE
Activity: ORDER ENTERED AS ACTIVE BY PHARMACIST
-----
Patient: PSJPATIENT1,ONE                    Status: ACTIVE
Orderable Item: PREDNISONE TAB
Instructions:
Dosage Ordered: 5MG
Duration:                                     Start: 02/25/2002  10:58
Med Route: ORAL (PO)                         Stop: 03/11/2002  24:00
Schedule Type: CONTINUOUS
Schedule: TU-TH-SA@09
Admin Times: 09
Provider: PSJPROVIDER,ONE [w]

Dispense Drugs                                U/D  Units  Units  Inactive
-----
PREDNISONE 5MG TAB                          1    0      0      Date

Self Med: NO
Entry By: PSJPROVIDER,ONE                    Entry Date: 02/25/02  10:58
ACTIVITY LOG:
#  DATE      TIME      REASON      USER
=====
      Date: 02/25/02  10:58      User: PSJPHARMACIST,ONE
Activity: ORDER VERIFIED BY PHARMACIST

```

6.3 Align Labels (Unit Dose)

The *Align Labels (Unit Dose)* option allows the user to align the label stock on a printer so that Unit Dose order information will print within the physical boundaries of the label.

Example: Align Labels (Unit Dose)

```

Select Unit Dose Medications Option: ALIGN Labels (Unit Dose)

Select LABEL PRINTER: <Enter> TELNET
\----- FIRST LINE OF LABEL -----/
<                                     >
<----- LABEL BOUNDARIES ----->
<                                     >
/-----LAST LINE OF LABEL-----\

XX/XX | XX/XX | XX/XX/XX  XX:XX  (PXXXX) | A T  PATIENT NAME
      ROOM-BED
DRUG NAME                SCHEDULE TYPE| D I  XXX-XX-XXXX  DOB (AGE)
      TEAM
DOSAGE ORDERED  MED ROUTE  SCHEDULE  | M M  SEX          DIAGNOSIS
SPECIAL INSTRUCTIONS                | I E  ACTIVITY DATE/TIME  ACTIVITY
WS HSM NF                RPH:_____ RN:_____ | N S  WARD GROUP
      WARD

Are the labels aligned correctly? Yes// Y (Yes)

```

6.4 Label Print/Reprint [PSJU LABEL]

The *Label Print/Reprint* option allows the user to print new unprinted labels and/or reprint the latest label for any order containing a label record. When entering this option, the nurse will be informed if there are any unprinted new labels from auto-cancelled orders (i.e., due to ward or service transfers). The nurse will be shown a list of wards to choose from if these labels are to be printed at this time. The nurse can delete these auto-cancel labels; however, deletion will be for all of the labels.

Next, the nurse will be instructed if there are any unprinted new labels. The nurse can then decide whether to print them now or later.

The nurse can choose to print the labels for a group (**G**), ward (**W**) clinic (**C**), or patient (**P**). When group is selected, a prompt to select by ward group (**W**) or clinic group (**C**) displays. If ward, ward group, clinic, or clinic group is chosen, the label start date will be entered and the labels will print on the specified printer device. When the option to print by individual patient is chosen, an Inpatient Profile will be displayed and the nurse can then choose the labels from the displayed Unit Dose and IV orders to be printed on a specified printer.

7 Inquiries Options

All of the Inquiries Options are located under the *INquiries Menu* option on the *Unit Dose Medications* menu.

INquiries Menu [PSJU INQMGR]

The *INquiries Menu* option allows the user to view information concerning standard schedules and drugs. No information in this option can be edited, so there is no danger of disrupting the Unit Dose Medications module's operation. The *INquiries Menu* contains the following sub-options:

Example: Inquiries Menu

```
Select Unit Dose Medications Option: INquiries Menu
Select INquiries Menu Option: ?
    Dispense Drug Look-Up
    Standard Schedules
```

7.1 Dispense Drug Look-Up [PSJU INQ DRUG]

The *Dispense Drug Look-Up* option allows the user to see what drugs are in the DRUG file and any Unit Dose information pertaining to them.

At the "Select DRUG:" prompt, the nurse can answer with drug number, quick code, or VA drug class code (for IV, solution print name, or additive print name). Information about the selected drug will be displayed.

Example: Dispense Drug Look-Up

```
Select Unit Dose Medications Option: INquiries Menu
Select INquiries Menu Option: DIspense Drug Look-Up
Select DRUG: ASP
  1  ASPIRIN 10 GRAIN SUPPOSITORIES          CN103      02-18-98      INPATIENT
  2  ASPIRIN 325MG                CN103      N/F          *90-DAY FILL*
  3  ASPIRIN 325MG E.C.            CN103      *90-DAY FILL*
  4  ASPIRIN 325MG E.C. U/D        CN103      N/F          TAB
  5  ASPIRIN 325MG U/D             CN103
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 5 ASPIRIN 325MG U/D          CN103
FORMULARY ITEM
A UNIT DOSE DRUG

DAY (nD) or DOSE (nL) LIMIT:
UNIT DOSE MED ROUTE:
UNIT DOSE SCHEDULE TYPE:
UNIT DOSE SCHEDULE:
CORRESPONDING OUTPATIENT DRUG:
ATC MNEMONIC:
ATC CANISTER: WEST WING          12
                SOUTH WING       12
                JUNK ONE          12
                TESSS             12
```

```
11;PS (57.5, 12
13;PS (57.5, 12
14;PS (57.5, 12
15;PS (57.5, 12
16;PS (57.5, 12
17;PS (57.5, 12
18;PS (57.5, 12
21;PS (57.5, 12
22;PS (57.5, 12
Select DRUG:
```

7.2 Standard Schedules [PSJU INQ STD SCHED]

It is extremely important for all users to know the method of schedule input. When the user enters a standard schedule, the system will echo back the corresponding Administration times.

At the “Select STANDARD SCHEDULE:” prompt, enter an administration schedule abbreviation to view information pertaining to that schedule. An explanation of the selected schedule will be displayed. To view a list of the available administration schedule abbreviations, enter a question mark (?) at the prompt “Select STANDARD SCHEDULE:”.

Example: Standard Schedules

```
Select INquiries Menu Option: Standard Schedules
Select STANDARD SCHEDULE: q4H 01-05-09-13-17-21
Schedule: Q4H Type: CONTINUOUS
Standard Admin Times: 01-05-09-13-17-21
Select STANDARD SCHEDULE:
```

8 CPRS Order Checks: How They Work

8.1 CPRS Order Checks Introduction

In CPRS, Order Checks occur by evaluating a requested order against existing patient data. Most order checks are processed via the CPRS Expert System. A few are processed within the Pharmacy, Allergy Tracking System, and Order Entry packages. Order Checks are a real-time process that occurs during the ordering session and is driven by responses entered by the ordering provider. Order Check messages are displayed interactively in the ordering session.

Order Checks review existing data and current events to produce a relevant message, which is presented to patient caregivers. Order Checks use the CPRS Expert System (OCX namespace), to define logical expressions for this evaluation and message creation. In addition to the expert system Order Checks have some hard-coded algorithms. For example, the drug-drug interaction order check is made via an entry point in the pharmacy package whereas Renal Functions for Patients Over 65 is defined as a rule in the CPRS Expert System.

8.2 Order Check Data Caching

Data caching was recently added to improve the speed of order checks. Before data caching, order checks could be slow because each order check retrieved data from the other VISTA packages—even if the order checks used the same data. With data caching, the first order check in an ordering session retrieves data from other VISTA packages, uses the data to evaluate whether it should display a warning, and then stores the retrieved data in the ^XTMP(“OCXCACHE” global for five minutes. The order checks that occur in the next five minutes can use the cached data, if it is the appropriate data, instead of retrieving data from the other packages. After five minutes, the cached data expires, and order checks must retrieve new data from the VISTA packages.

For example, before data caching was implemented, if an order check took 3 seconds to retrieve data from other VISTA packages, and there were 12 order checks, clinicians might wait 36 seconds to sign orders. With data caching, the first order check might take 3 seconds to retrieve the data, but subsequent order checks could use the cache and might take only .03 seconds each. That would be 3.33 seconds compared to 36 seconds. The numbers in this example are for illustration only and do not reflect real system speed. However, data caching should speed up order checks.

To avoid using all available disk space for storing data from order checks, there are several ways to clear the ^XTMP(“OCXCACHE” global. ORMTIME removes data from the global when it runs. The suggested frequency for running ORMTIME is every 30 minutes, but not every site runs it that frequently. Kernel clean up utilities also remove data from the cache when they run, which is usually every 24 hours. If needed, users that have access to the programmer’s prompt can manually clear the cache from that prompt by using PURGE^OCXCACHE.

(This page included for two-sided copying.)

9 Error Messages

9.1 Error Information

The text in the error message and reason column will be displayed to the user. The type of error is displayed in Column 1.

There are three levels of error messages:

| | |
|--------|---|
| System | When such an error occurs, Drug Interaction, Duplicate Therapy, or Dosing order checks will be performed. Other order checks that do not use the COTS database (FDB) will still be performed such as allergy/ADRs, duplicate drug (for outpatient only) and new CPRS order checks, etc. |
| Drug | <p>The second error level is for the drug and no Drug Interaction, Duplicate Therapy, or Dosing order checks will be performed for a specific drug. Drug level errors can occur for the prospective drug (drug being processed) or the profile drug. If a drug level error occurs on the prospective drug, no profile drug errors will be displayed. The only exception to this is when you are processing an IV order with multiple prospective drugs (i.e. multiple IV Additives). Profile drug level errors will only be shown once per patient session.</p> <p>There are two reasons that a drug level error is generated; the drug is not matched to NDF or the drug is matched to NDF, but the VA Product to which it is matched does not have a GCNSEQNO assigned or the GCNSEQNO assigned does not match up to the GCNSEQNO in the COTS database. The latter (GCNSEN mismatch) is rare.</p> |
| Order | The third error level is for the order. Order level errors will only occur with dosing order checks. Please see the <i>Dosing Order Check User Manual</i> for more information. |

| Error Level | Error Message | Reason | Why message is being displayed |
|-------------|--|--|---|
| System | No Enhanced Order Checks can be performed. | Vendor Database cannot be reached. | The connectivity to the vendor database has gone down. A MailMan message is sent to the G. PSS ORDER CHECKS mail group when the link goes down and when it comes back up. |
| System | No Enhanced Order Checks can be performed. | The connection to the vendor database has been disabled. | A user has executed the Enable/Disable Vendor Database Link [PSS ENABLE/DISABLE DB |

| | | | |
|--------|--|---|---|
| | | | LINK] option and disabled the interface. |
| System | No Enhanced Order Checks can be performed | Vendor database updates are being processed | The vendor database (custom and standard data) is being updated using the DATUP (Data Update) process. |
| System | No Enhanced Order Checks can be performed | An unexpected error has occurred | There is a system network problem and the vendor database cannot be reached or a software interface issue. |
| System | No Dosing Order Checks can be performed | Dosing Order Checks are disabled | A user has executed the <i>Enable/Disable Dosing Order Checks</i> [PSS Dosing Order Checks] option. |
| Drug | Enhanced Order Checks cannot be performed for Local or Local Outpatient Drug: <DRUG NAME> | Drug not matched to NDF | The local drug being ordered/ or on profile has not been matched to NDF. Matching the drug to a VA Product will eliminate this message. |
| Drug | Order Checks could not be done for Remote Drug: <DRUG NAME>, please complete a manual check for Drug Interactions and Duplicate Therapy. Remote order indicator | | If this error message is displayed, it means that the VA product that the local or remote drug being ordered/or on the local or remote profile does not have a GCNSEQNO or in rare cases, the GCNSEQNO assigned to the VA Product does not match up with a GCNSEQNO in the vendor database. |
| Drug | Enhanced Order Checks cannot be performed for Orderable Item: <OI NAME> | No active Dispense Drug found | Highly unlikely that this error would be seen. At the time the order check was being performed the orderable item did not have an active dispense drug associated. |

10 Glossary

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| Action Prompts | There are three types of Inpatient Medications “Action” prompts that occur during order entry: ListMan, Patient/Order, and Hidden action prompts. |
| <u>ListMan Action Prompts</u> | + Next Screen - Previous Screen UP Up a Line DN Down a Line > Shift View to Right < Shift View to Left FS First screen LS Last Screen GO Go to Page RD Re Display Screen PS Print Screen PT Print List SL Search List Q Quit ADPL Auto Display (on/off) |
| <u>Patient/Order Action Prompts</u> | PU Patient Record Updates DA Detailed Allergy/ADR List VP View Profile NO New Orders Entry CM New Clinic Medication Entry IN Intervention Menu PI Patient Information SO Select Order DC Discontinue ED Edit FL Flag VF Verify HD Hold RN Renew AL Activity Logs OC On Call NL Print New IV Labels RL Reprint IV Labels RC Recycled IV DT Destroyed IV CA Cancelled IV |
| <u>Hidden Action Prompts</u> | LBL Label Patient/Report JP Jump to a Patient |

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| | <p>OTH Other Pharmacy Options</p> <p>MAR MAR Menu</p> <p>DC Speed Discontinue</p> <p>RN Speed Renew</p> <p>SF Speed Finish</p> <p>SV Speed Verify</p> <p>CO Copy</p> <p>N Mark Not to be Given</p> <p>I Mark Incomplete</p> <p>DIN Drug Restr/Guide</p> <p>DA Display Drug Allergies</p> <p>OCI Overrides/Interventions</p> <p>CK Check Interactions</p> |
| Active Order | Any order which has not expired or been discontinued. Active orders also include any orders that are on hold or on call. |
| Activity Reason Log | The complete list of all activity related to a patient order. The log contains the action taken, the date of the action, and the user who took the action. |
| Activity Ruler | The activity ruler provides a visual representation of the relationship between manufacturing times, doses due, and order start times. The intent is to provide the on-the-floor user with a means of tracking activity in the IV room and determining when to call for doses before the normal delivery. The activity ruler can be enabled or disabled under the <i>Site Parameters (IV)</i> option. |
| Additive | A drug that is added to an IV solution for the purpose of parenteral administration. An additive can be an electrolyte, a vitamin or other nutrient, or an antibiotic. Only an electrolyte or multivitamin type additives can be entered as IV fluid additives in CPRS |
| ADMINISTRATION SCHEDULE File | File #51.1. This file contains administration schedule names and standard dosage administration times. The name is a common abbreviation for an administration schedule type (e.g., QID, Q4H, PRN). The administration time entered is in military time, with each time separated from the next by a dash, and times listed in ascending order. |
| Administering Teams | Nursing teams used in the administration of medication to the patients. There can be a number of teams assigned to take care of one ward, with specific rooms and beds assigned to each team. |
| Admixture | An admixture is a type of intravenously administered medication comprised of any number of additives (including zero) in one solution. It is given at a specified flow rate; when one bottle or bag is empty, another is hung. |

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| Allergy/ADR Order Check | The screening of a patient’s documented allergies or adverse reactions against a medication ordered by a provider. |
| APSP INTERVENTION File | File #9009032.4. This file is used to enter pharmacy interventions. Interventions in this file are records of occurrences where the pharmacist had to take some sort of action involving a particular prescription or order. A record would record the provider involved, why an intervention was necessary, what action was taken by the pharmacists, etc. |
| Average Unit Drug Cost | The total drug cost divided by the total number of units of measurement. |
| BSA | <p>Body Surface Area. The Dubois formula is used to calculate the Body Surface Area using the following formula:</p> $BSA (m^2) = 0.20247 \times \text{Height (m)}^{0.725} \times \text{Weight (kg)}^{0.425}$ <p>The equation is performed using the most recent patient height and weight values that are entered into the vitals package.</p> <p>The calculation is not intended to be a replacement for independent clinical judgment.</p> |
| BCMA | A VistA computer software package named Bar Code Medication Administration. This package validates medications against active orders prior to being administered to the patient. |
| Calc Start Date | Calculated Start Date. This is the date that would have been the default Start Date/Time for an order if no duration was received from CPRS. Due to the existence of a duration, the default Start Date/Time of the order becomes the <u>expected first dose</u> . |
| Calc Stop Date | Calculated Stop Date. This is the date that would have been the default Stop Date/Time for an order if no duration was received from CPRS. Due to the existence of a duration, the default Stop Date/Time of the order becomes the expected first dose plus the duration. |
| Chemotherapy | Chemotherapy is the treatment or prevention of cancer with chemical agents. The chemotherapy IV type administration can be a syringe, admixture, or a piggyback. Once the subtype (syringe, piggyback, etc.) is selected, the order entry follows the same procedure as the type that corresponds to the selected subtype (e.g., piggyback type of chemotherapy follows the same entry procedure as regular piggyback IV). |
| Chemotherapy “Admixture” | The Chemotherapy “Admixture” IV type follows the same order entry procedure as the regular admixture IV type. This type is in use when the level of toxicity of the chemotherapy drug is high and is to be administered continuously over an extended period of time (e.g., hours or days). |

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| Chemotherapy “Piggyback” | The Chemotherapy “Piggyback” IV type follows the same order entry procedure as the regular piggyback IV type. This type of chemotherapy is in use when the chemotherapy drug does not have time constraints on how fast it must be infused into the patient. These types are normally administered over a 30 - 60 minute interval. |
| Chemotherapy “Syringe” | The Chemotherapy “Syringe” IV type follows the same order entry procedure as the regular syringe IV type. Its administration may be continuous or intermittent. The pharmacist selects this type when the level of toxicity of the chemotherapy drug is low and needs to be infused directly into the patient within a short time interval (usually 1-2 minutes). |
| Child Orders | One or more Inpatient Medication Orders that are associated within a Complex order and are linked together using the conjunctions AND and OR to create combinations of dosages, medication routes, administration schedules, and order durations. |
| CLINIC DEFINITION file | File #53.46. This file is used in conjunction with Inpatient Medications for Outpatients (IMO) to give the user the ability to define, by clinic, default stop dates, whether to auto-dc IMO orders, and whether to send IMO orders to BCMA. User’s may also define a Missing Dose Request printer and a Pre-Exchange Report printer. |
| Clinic Group | A clinic group is a combination of outpatient clinics that have been defined as a group within Inpatient Medications to facilitate processing of orders. |
| Clinical Reminder Order Checks (CROC) | CPRS Order Checks that use Clinical Reminder functionality, both reminder terms and reminder definitions, to perform checks for groups of orderable items. |
| Complex Order | An order that is created from CPRS using the Complex order dialog and consists of one or more associated Inpatient Medication orders, known as “child” orders. |
| Continuous IV Order | Inpatient Medications IV order not having an administration schedule. This includes the following IV types: Hyperals, Admixtures, Non-Intermittent Syringe, and Non-Intermittent Syringe or Admixture Chemotherapy. |
| Continuous Syringe | A syringe type of IV that is administered continuously to the patient, similar to a hyperal IV type. This type of syringe is commonly used on outpatients and administered automatically by an infusion pump. |
| Coverage Times | The start and end of coverage period designates administration times covered by a manufacturing run. There must be a coverage period for all IV types: admixtures and primaries, piggybacks hyperals, syringes, and chemotherapy. For one type, admixtures for example, the user |

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| | might define two coverage periods; one from 1200 to 0259 and another from 0300 to 1159 (this would mean that the user has two manufacturing times for admixtures). |
| CPRS | A VistA computer software package called Computerized Patient Record Systems. CPRS is an application in VistA that allows the user to enter all necessary orders for a patient in different packages from a single application. All pending orders that appear in the Unit Dose and IV modules are initially entered through the CPRS package. |
| CrCL | <p>Creatinine Clearance. The CrCL value which displays in the pharmacy header is identical to the CrCL value calculated in CPRS. The formula approved by the CPRS Clinical Workgroup is the following:</p> <p style="text-align: center;">Modified Cockcroft-Gault equation using Adjusted Body Weight in kg (if ht > 60in)</p> <p>This calculation is not intended to be a replacement for independent clinical judgment.</p> |
| Critical Drug-Drug Interaction | One of two types of drug-drug interactions identified by order checks. The other type is a “significant” drug-drug interaction |
| Cumulative Doses | The number of IV doses actually administered, which equals the total number of bags dispensed less any recycled, destroyed, or cancelled bags. |
| DATUP | Data Update (DATUP). Functionality that allows the Pharmacy Enterprise Customization System (PECS) to send out VA custom and standard commercial-off-the-shelf (COTS) vendor database changes to update the production and pre-production centralized MOCHA databases at Austin and Philadelphia. |
| Default Answer | The most common answer, predefined by the system to save time and keystrokes for the user. The default answer appears before the two slash marks (//) and can be selected by the user by pressing <Enter>. |
| Dispense Drug | The Dispense Drug is pulled from the DRUG file (#50) and usually has the strength attached to it (e.g., Acetaminophen 325 mg). Usually, the name alone without a strength attached is the Orderable Item name. |
| Delivery Times | The time(s) when IV orders are delivered to the wards. |
| Dosage Ordered | After the user has selected the drug during order entry, the dosage ordered prompt is displayed. |
| DRUG ELECTROLYTES file | File #50.4. This file contains the names of anions/cations, and their concentration units. |
| DRUG file | File #50. This file holds the information related to each drug that can be used to fill a prescription. |

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| Duration | The length of time between the Start Date/Time and Stop Date/Time for an Inpatient Medications order. The default duration for the order can be specified by an ordering clinician in CPRS by using the Complex Dose tab in the Inpatient Medications ordering dialog. |
| Electrolyte | An additive that disassociates into ions (charged particles) when placed in solution. |
| Enhanced Order Checks | Drug–Drug Interaction, Duplicate Therapy, and Dosing order checks that are executed utilizing FDB’s MedKnowledge Framework APIs and database. |
| Entry By | The name of the user who entered the Unit Dose or IV order into the computer. |
| Hospital Supplied Self Med | Self-medication, which is to be supplied by the Medical Center’s pharmacy. Hospital supplied self-med is only prompted for if the user answers Yes to the SELF MED: prompt during order entry. |
| Hyperalimentation (Hyperal) | Long term feeding of a protein-carbohydrate solution. Electrolytes, fats, trace elements, and vitamins can be added. Since this solution generally provides all necessary nutrients, it is commonly referred to as Total Parenteral Nutrition (TPN). A hyperal is composed of many additives in two or more solutions. When the labels print, they show the individual electrolytes in the hyperal order. |
| Infusion Rate | The designated rate of flow of IV fluids into the patient. |
| INPATIENT USER PARAMETERS file | File #53.45. This file is used to tailor various aspects of the Inpatient Medications package with regards to specific users. This file also contains fields that are used as temporary storage of data during order entry/edit. |
| INPATIENT WARD PARAMETERS file | File #59.6. This file is used to tailor various aspects of the Inpatient Medications package with regards to specific wards. |
| Intermittent Syringe | A syringe type of IV that is administered periodically to the patient according to an administration schedule. |
| Internal Order Number | The number on the top left corner of the label of an IV bag in brackets ([]). This number can be used to speed up the entry of returns and destroyed IV bags. |
| IV ADDITIVES file | File #52.6. This file contains drugs that are used as additives in the IV room. Data entered includes drug generic name, print name, drug information, synonym(s), dispensing units, cost per unit, days for IV order, usual IV schedule, administration times, electrolytes, and quick code information. |

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| IV CATEGORY file | File #50.2. This file allows the user to create categories of drugs in order to run “tailor-made” IV cost reports for specific user-defined categories of drugs. The user can group drugs into categories. |
| IV Duration | The duration of an order may be entered in CPRS at the IV DURATION OR TOTAL VOLUME field in the IV Fluids order dialog. The duration may be specified in terms of volume (liters or milliliters), or time (hours or days). Inpatient Medications uses this value to calculate a default stop date/time for the order at the time the order is finished. |
| IV Label Action | A prompt, requesting action on an IV label, in the form of “Action ()”, where the valid codes are shown in the parentheses. The following codes are valid: P – Print a specified number of labels now. B – Bypass any more actions. S – Suspend a specified number of labels for the IV room to print on demand. |
| IV Room Name | The name identifying an IV distribution area. |
| IV SOLUTIONS file | File #52.7. This file contains drugs that are used as primary solutions in the IV room. The solution must already exist in the DRUG file (#50) to be selected. Data in this file includes: drug generic name, print name, status, drug information, synonym(s), volume, and electrolytes. |
| IV STATS file | File #50.8. This file contains information concerning the IV workload of the pharmacy. This file is updated each time the <i>COMpile IV Statistics</i> option is run and the data stored is used as the basis for the AMIS (IV) report. |
| Label Device | The device, identified by the user, on which computer-generated labels will be printed. |
| Local Possible Dosages | Free text dosages that are associated with drugs that do not meet all of the criteria for Possible Dosages. |
| LVP | Large Volume Parenteral — Admixture A solution intended for continuous parenteral infusion, administered as a vehicle for additive (s) or for the pharmacological effect of the solution itself. It is comprised of any number of additives, including zero, in one solution. An LVP runs continuously, with another bag hung when one bottle or bag is empty. |
| Manufacturing Times | The time(s) that designate(s) the general time when the manufacturing list will be run and IV orders prepared. This field in the <i>Site Parameters (IV)</i> option (IV ROOM file (#59.5)) is for documentation only and does not affect IV processing. |
| MEDICATION ADMINISTERING TEAM file | File #57.7. This file contains wards, the teams used in the administration of medication to that ward, and the rooms/beds assigned to that team. |

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| MEDICATION INSTRUCTION file | File #51. This file is used by Outpatient Pharmacy and Unit Dose Special Instructions. (Not used by IV Other Print Info.) It contains the medication instruction name, expansion, and intended use. |
| MEDICATION ROUTES file | File #51.2. This file contains medication route names. The user can enter an abbreviation for each route to be used at their site. The abbreviation will most likely be the Latin abbreviation for the term. |
| Medication Routes/Abbreviations | Route by which medication is administered (e.g., oral). The MEDICATION ROUTES file (#51.2) contains the routes and abbreviations, which are selected by each VAMC. The abbreviation cannot be longer than five characters to fit on labels and the MAR. The user can add new routes and abbreviations as appropriate. |
| Non-Formulary Drugs | The medications that are defined as commercially available drug products not included in the VA National Formulary. |
| Non-VA Meds | Term that encompasses any Over-the-Counter (OTC) medications, Herbal supplements, Veterans Health Administration (VHA) prescribed medications but purchased by the patient at an outside pharmacy, and medications prescribed by providers outside VHA. All Non-VA Meds must be documented in patients' medical records. |
| Non-Verified Orders | Any order that has been entered in the Unit Dose or IV module that has not been verified (made active) by a nurse and/or pharmacist. Ward staff may not verify a non-verified order. |
| Orderable Item | An Orderable Item name has no strength attached to it (e.g., Acetaminophen). The name with a strength attached to it is the Dispense Drug name (e.g., Acetaminophen 325mg). |
| Order Check | Order checks (drug-allergy/ADR interactions, drug-drug interactions, duplicate drug, and duplicate drug class) are performed when a new medication order is placed through either the CPRS or Inpatient Medications applications. They are also performed when medication orders are renewed, when Orderable Items are edited, or during the finishing process in Inpatient Medications. This functionality will ensure the user is alerted to possible adverse drug reactions and will reduce the possibility of a medication error. |
| Order Sets | An Order Set is a set of N pre-written orders. (N indicates the number of orders in an Order Set is variable.) Order Sets are used to expedite order entry for drugs that are dispensed to all patients in certain medical practices and procedures. |
| Order View | Computer option that allows the user to view detailed information related to one specific order of a patient. The order view provides basic patient information and identification of the order variables. |

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| Parenteral | Introduced by means other than the digestive track. |
| Patient Profile | A listing of a patient's active and non-active Unit Dose and IV orders. The patient profile also includes basic patient information, including the patient's name, social security number, date of birth, diagnosis, ward location, date of admission, reactions, and any pertinent remarks. |
| PECS | Pharmacy Enterprise Customization System. A Graphical User Interface (GUI) web-based application used to research, update, maintain, and report VA customizations of the commercial-off-the-shelf (COTS) vendor database used to perform Pharmacy order checks such as drug-drug interactions, duplicate therapy, and dosing. |
| Pending Order | A pending order is one that has been entered by a provider through CPRS without Pharmacy or Nursing finishing the order. Once Pharmacy or Nursing has finished and verified the order, it will become active. |
| PEPS | Pharmacy Enterprise Product System. A re-engineering of pharmacy data and its management practices developed to use a commercial off-the-shelf (COTS) drug database, currently First DataBank (FDB) MedKnowledge, to provide the latest identification and safety information on medications. |
| Pharmacist Intervention | A recommendation provided by a pharmacist through the Inpatient Medications system's Intervention process acknowledging the existence of a critical drug-drug interaction and/or allergy/ADR interaction, and providing justification for its existence. There are two ways an intervention can be created, either via the Intervention Menu, or in response to Order Checks. |
| PHARMACY SYSTEM file | File #59.7. This file contains data that pertains to the entire Pharmacy system of a medical center, and not to any one site or division. |
| Piggyback | Small volume parenteral solution for intermittent infusion. A piggyback is comprised of any number of additives, including zero, and one solution the mixture is made in a small bag. The piggyback is given on a schedule (e.g., Q6H). Once the medication flows in, the piggyback is removed; another is not hung until the administration schedule calls for it. |

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| Possible Dosages | Dosages that have a numeric dosage and numeric dispense units per dose appropriate for administration. For a drug to have possible dosages, it must be a single ingredient product that is matched to the VA PRODUCT file (#50.68). The VA PRODUCT file (#50.68) entry must have a numeric strength and the dosage form/unit combination must be such that a numeric strength combined with the unit can be an appropriate dosage selection. |
| Pre-Exchange Units | The number of actual units required for this order until the next cart exchange. |
| Primary Solution | A solution usually an LVP, administered as a vehicle for additive (s) or for the pharmacological effect of the solution itself. Infusion is generally continuous. An LVP or piggyback has only one solution (primary solution). A hyperal can have one or more solutions. |
| Print Name | Drug generic name as it is to appear on pertinent IV output, such as labels and reports. Volume or Strength is not part of the print name. |
| Print Name{2} | Field used to record the additives contained in a commercially purchased premixed solution. |
| Profile | The patient profile shows a patient's orders. The Long profile includes all the patient's orders, sorted by status: active, non-verified, pending, and non-active. The Short profile will exclude the patient's discontinued and expired orders. |
| Prompt | A point at which the system questions the user and waits for a response. |
| Provider | Another term for the physician/clinician involved in the prescription of an IV or Unit Dose order for a patient. |
| Provider Override Reason | A reason supplied by a provider through the CPRS system, acknowledging a critical drug-drug interaction and/or allergy/ADR interaction and providing justification for its existence. |
| PSJI MGR | The name of the <i>key</i> that allows access to the supervisor functions necessary to run the IV medications software. Usually given to the Inpatient Medications package coordinator. |
| PSJI PHARM TECH | The name of the <i>key</i> that must be assigned to pharmacy technicians using the IV module. This key allows the technician to finish IV orders, but not verify them. |
| PSJI PURGE | The <i>key</i> that must be assigned to individuals allowed to purge expired IV orders. This person will most likely be the IV application coordinator. |
| PSJI RNFINISH | The name of the <i>key</i> that is given to a user to allow the finishing of IV orders. This user must also be a holder of the PSJ RNURSE key. |

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| PSJI USR1 | The <i>primary menu option</i> that may be assigned to nurses. |
| PSJI USR2 | The <i>primary menu option</i> that may be assigned to technicians. |
| PSJU MGR | The name of the <i>primary menu</i> and of the <i>key</i> that must be assigned to the pharmacy package coordinators and supervisors using the Unit Dose Medications module. |
| PSJU PL | The name of the <i>key</i> that must be assigned to anyone using the Pick List options. |
| PSJ PHARM TECH | The name of the <i>key</i> that must be assigned to pharmacy technicians using the Unit Dose Medications module. |
| PSJ RNFINISH | The name of the <i>key</i> that is given to a user to allow the finishing of a Unit Dose order. This user must also be a holder of the PSJ RNURSE key |
| PSJ RNURSE | The name of the <i>key</i> that must be assigned to nurses using the Unit Dose Medications module. |
| PSJ RPHARM | The name of the <i>key</i> that must be assigned to a pharmacist to use the Unit Dose Medications module. If the package coordinator is also a pharmacist he/she must also be given this key. |
| Quick Code | An abbreviated form of the drug generic name (from one to ten characters) for IV orders. One of the three drug fields on which lookup is done to locate a drug. Print name and synonym are the other two. Use of quick codes will speed up order entry, etc. |
| Report Device | The device, identified by the user, on which computer-generated reports selected by the user will be printed. |
| Schedule | The frequency of administration of a medication (e.g., QID, QDAILY, QAM, STAT, Q4H). |
| Schedule Type | Codes include: O - one time (i.e., STAT - only once), P - PRN (as needed; no set administration times). C - continuous (given continuously for the life of the order; usually with set administration times). R - fill on request (used for items that are not automatically put in the cart - but are filled on the nurse's request. These can be multidose items (e.g., eye wash, kept for use by one patient and is filled on request when the supply is exhausted)). And OC - on call (one time with no specific time to be given, i.e., 1/2 hour before surgery). |
| Scheduled IV Order | Inpatient Medications IV order having an administration schedule. This includes the following IV Types: IV Piggyback, Intermittent Syringe, IV Piggyback Chemotherapy, and Intermittent Syringe Chemotherapy. |
| Self Med | Medication that is to be administered by the patient to himself. |
| Standard Schedule | Standard medication administration schedules stored in the ADMINISTRATION SCHEDULE file (#51.1). |

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| Start Date/Time | The date and time an order is to begin. |
| Status | A - active, E - expired, R - renewed (or reinstated), D - discontinued, H - on hold, I - incomplete, or N - non-verified, U – unreleased, P – pending, O – on call, , DP - discontinued by provider through CPRS, DE - discontinued due to edit via backdoor pharmacy (unit Dose orders only), DF - discontinued due to edit by provider through CPRS, DD - auto discontinued due to death, DA - auto discontinued due to patient movements, HP - placed on hold due to provider CPRS, DE – discontinued edit, RE – reinstated, DR – discontinued renewal. |
| Stop Date/Time | The date and time an order is to expire. |
| Stop Order Notices | A list of patient medications that are about to expire and may require action. |
| Syringe | Type of IV that uses a syringe rather than a bottle or bag. The method of infusion for a syringe-type IV may be continuous or intermittent. |
| Syringe Size | The syringe size is the capacity or volume of a particular syringe. The size of a syringe is usually measured in number of cubic centimeters (ccs). |
| TPN | Total Parenteral Nutrition. The intravenous administration of the total nutrient requirements of the patient. The term TPN is also used to mean the solution compounded to provide those requirements. |
| Units per Dose | The number of Units (tablets, capsules, etc.) to be dispensed as a Dose for an order. Fractional numbers will be accepted. |
| VA Drug Class Code | A drug classification system used by VA that separates drugs into different categories based upon their characteristics. IV cost reports can be run for VA Drug Class Codes. |
| VDL | Virtual Due List. This is a Graphical User Interface (GUI) application used by the nurses when administering medications. |
| Ward Group | A ward group indicates inpatient nursing units (wards) that have been defined as a group within Inpatient Medications to facilitate processing of orders. |
| WARD GROUP file | File #57.5. This file contains the name of the ward group, and the wards included in that group. The grouping is necessary for the pick list to be run for specific carts and ward groups. |
| Ward Group Name | A field in the WARD GROUP file (#57.5) used to assign an arbitrary name to a group of wards for the pick list and medication cart. |
| WARD LOCATION file | File #42. This file contains all of the facility ward locations and their related data, i.e., Operating beds, Bed section, etc. The wards are created/edited using the <i>Ward Definition</i> option of the ADT module. |

11 Index

1

14 Day MAR Report, 142, 143
14 Day MAR Report Example, 145

2

24 Hour MAR Report, 128, 130, 131, 138
24 Hour MAR Report Example, 131

7

7 Day MAR Report, 136, 137, 138
7 Day MAR Report Example, 139

A

Abbreviated Order Entry, 26, 27
Action Area, 6, 13, 21, 24, 61
Action Profile #1 Report, 148
Action Profile #1 Report Example, 149
Action Profile #2 Report Example, 151
Activity Log, 61, 66, 73, 81, 88, 91
Activity Log Example, 81
Additive, 40, 41, 88, 93, 165, 172, 176, 178, 181
Administration Schedule, 44, 72, 172
Administration Team, 129, 136, 142, 148
Administration Time, 86
Administration Times, 44, 65, 87, 129, 136, 142
Admixture, 40, 41, 173, 174, 175, 178
Adverse Reaction Tracking (ART) Package, 50
Align Labels (Unit Dose), 163
Align Labels (Unit Dose) Example, 163
Allergy Order Checks, 99
Asterisk, 60, 64, 66
Auto-Verify, 71

B

BCMA, 1, 44, 61
BCMA Virtual Due List (VDL), 71

C

Check Drug Interactions, 94
Chemotherapy, 40, 173, 174, 175
Clinic, 14, 15, 129, 136, 142, 164
Clinic Group, 14, 15, 129, 136, 142, 164
Clinic Location, 47
Clinical Reminder Order Checks, 102
Complex Orders, 78
 Active Complex Order, 58
 Non-Verified Complex Order, 58
 Pending Complex Order, 58
CPRS, 1, 14, 37, 44, 46, 61, 71, 73, 82, 87, 88, 93, 172, 175, 180
CPRS Med Order, 45

CPRS Order Checks Introduction, 167
CPRS Order Checks: How They Work, 167
CPRS Provider Overrides, 28
Critical Drug-Drug Interaction, 175
critical drug-drug interactions, 50
CWAD Indicator, 5, 6

D

Default Start Date Calculation
 Default Start Date Calculation = NOW, 148
Default Stop Date, 25, 46, 114, 125, 126
Default Stop Date/Time, 46
Detailed Allergy/ADR List, 50, 171
Discontinue All of a Patient's Orders, 89
Discontinue an Order, 61
Discontinue an Order Example, 62
Discontinuing a Pending Renewal, 80
Dispense Drug, 26, 27, 28, 40, 41, 64, 66, 72, 73, 87, 88, 93, 176, 179
Dispense Drug Look-Up, 165
Dispense Drug Look-Up Example, 165
Dispense Log, 81
DONE Order, 45
Dosage Ordered, 26, 28, 29, 66, 176
Dosing Order Checks, 112
Drug File, 26, 88, 165
Drug Prompt, 26
Drug Text Indicator, 27, 40, 41

E

Edit an Order, 64
Edit an Order Example, 64, 65
Edit Inpatient User Parameters, 58, 125
Edit Patient's Default Stop Date, 125
Enter/Edit Allergy/ADR Data, 50
Error Information, 169
Error Messages, 169
Expected First Dose, 87

F

Finish an Order, 82
Finish an Order With a Duration Example, 85
Finish an Order Without a Duration Example, 83
Flag an Order, 88
Flag an Order Example, 89
Free Text Dosage, 157

G

Glossary, 171

H

Header Area, 6

Hidden Actions, 4, 7
History Log, 64, 81
Hold, 3, 12, 22, 50, 73, 90, 172
 Hold All of a Patient's Orders, 90
 Hold All of a Patient's Orders Example, 90
 Hold an Order, 73
 Hold an Order Example, 73
 Take All of a Patient's Orders Off of Hold Example, 90
Hyperal, 40, 41, 175, 176, 181

I

Infusion Rate, 41, 43
Inpatient Medication Orders for Outpatients, 46, 136, 142, 148
Inpatient Narrative, 24
Inpatient Order Entry, 3, 6, 7, 11, 12, 22, 25, 40, 55, 88
Inpatient Order Entry Example, 22
Inpatient Profile, 90, 164
Inpatient Profile Example, 91
Inpatient Stop Order Notices Example, 158
Inpatient User Parameters File, 58, 72
Inpatient Ward Parameters, 36, 37, 45
Inquiries Menu, 165
Inquiries Menu Example, 165
Intermittent Syringe, 44
Intervention, 50, 173
Intervention Menu, 50, 171
 Delete an Intervention Example, 52
 Edit an Intervention Example, 51
 New Intervention Example, 50
 Print an Intervention Example, 53
 View an Intervention Example, 53, 89
Introduction, 1
IRMS, 40
IV Additives, 46, 177
IV Duration, 177
IV Flag, 88
IV Room, 22, 45, 91, 172, 177, 178
IV Solution, 41, 172
IV Type, 40, 41, 46

L

Label Print/Reprint, 164
Large Volume Parenteral (LVP), 40, 178
List Area, 6
List Manager, 5, 6, 7, 24, 61
Local Possible Dosages, 28, 178
Local Possible Dosages Example, 29

M

Maintenance Options, 125
Medication Administration Records (MARs), 1
Medication Routes, 43, 88, 178
Menu Option, 3
Menu Tree, viii
Message Window, 6, 64

N

Nature of Order, 27, 37, 46
New Order Entry, 25
 New IV Order Entry Example, 47
 New Unit Dose Order Entry Example, 37
Non-Formulary Status, 27, 40, 41, 64, 72, 73, 87
Non-Verified Order, 6
Non-Verified/Pending Orders, 11, 13, 25, 55
Non-Verified/Pending Orders Example, 14

O

OCI, 9
OCXCACHE, 167
Order Actions, 61
Order check
 data caching, 167
 OCXCACHE, 167
 XTMP, 167
Order Check, 26, 92, 93, 179
 Drug-Allergy Interactions, 26, 92, 93, 94
 Drug-Drug Interactions, 26, 92, 93
 Duplicate Class, 26, 92, 93
 Duplicate Drug, 93
Order Check Data Caching, 167
Order Check/Interventions, 9
Order Checks/Interventions (OCI) indicator, 27
Order Entry, 9, 11, 12, 25, 26, 90
Order Locks, 11
Order Options, 11
Order Set, 26, 27
Orderable Item, 26, 27, 40, 41, 43, 64, 66, 72, 73, 87, 88, 126, 176, 179
Orientation, 3
Other Print Info, 44, 45

P

Parenteral, 40, 172, 178, 180
Patient Action, 13, 21, 24
Patient Actions, 24
Patient Information, 6, 13, 23, 42, 59, 171
Patient Information Example, 59
Patient Information Screen Example, 13, 24
Patient Lock, 11, 25
Patient Record Update, 24
Patient Record Update Example, 24
Pharmacist Intervention, 180
Pick List, 1, 71, 182, 184
Pick List Menu Example, 114
Piggyback, 40, 41, 44, 173, 174, 175, 180, 181
Possible Dosages, 28, 178, 180
Possible Dosages Example, 28
Priority, 6, 15, 16, 19, 55
Provider, 27, 37
Provider Comments, 45
PSJ RNFINISH Key, 15, 22, 82, 88
PSJ RNURSE Key, 3, 21, 182
PSJ RPHARM Key, 50
PSJI RNFINISH Key, 15, 22, 82

PSJU PL Key, 125

Q

Quick Code, 40, 165, 177

R

Regular Order Entry, 26

Renew an Order, 74, 75

 Active Orders, 76

 Complex Orders, 78

 Discontinued Orders, 76

 Expired Continuous IV Orders, 78

 Expired Scheduled IV Orders, 77

 Expired Unit Dose Orders, 77

 Viewing Renewed Orders, 79

Renewing Orders

 with CPRS Overrides/Pharmacist Interventions, 75

Requested Start Date/Time, 85, 87

Requested Stop Date/Time, 85

Revision History, i

S

Schedule, 44, 138, 144, 166, 177, 180

Screen Prompts, 3

Screen Title, 5, 6

Select Action, 6, 7, 13, 21, 24

Select Allergy, 50

Select Order, 57, 60, 171

Select Order Example, 60

Self Med, 37

Short Profile Example, 16

Solution, 40, 41, 88, 93, 165, 173, 176, 178, 180, 181, 183

Speed Actions, 89

 Speed Discontinue, 172

 Speed Finish, 172

 Speed Renew, 172

 Speed Verify, 172

Speed Discontinue, 89

Speed Finish, 82, 89

Speed Renew, 89

Speed Verify, 89

Standard Schedules, 166

Standard Schedules Example, 166

Start Date/Time, 45, 62, 66, 183

Stop Date/Time, 36, 46, 47, 61, 64, 66, 81, 82, 183

Syringe, 40, 173, 174, 175, 177, 183

T

Table of Contents, vi

Topic Oriented Section, viii

U

Unit Dose Medications, 3, 11, 12, 125, 165

Unit Dose Order Entry Profile, 9

Units Per Dose, 29

V

VA Drug Class Code, 165

VA FORM 10-1158, 149, 151

VA FORM 10-2970, 138

VA FORM 10-5568d, 138

VDL, 44, 71, 184

Verify an Order, 71

Verify an Order Example, 72

View Profile, 13, 24, 55, 171

View Profile Example, 55

VistA, 25, 175

Volume, 40

W

Ward, 15, 90, 129, 148, 164

Ward Group, 14, 15, 90, 91, 129, 136, 142, 148, 164, 184

Ward Group Sort

 ^OTHER, 15, 148

Ward Stock, 138, 144

X

XTMP, 167